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The American Home

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HOWARD AND FRENAYE, ARCHITECTS

Gardening Number

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REGINALD T. TOWNSEND

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A grouping of model furniture and furnishings designed to carry out the decorative scheme suggested by Ethel Reeve, a New York decorator, who cooperated with THE AMERICAN HOME in redecorating the house of one of its subscribers. The story of this project starts on page 444

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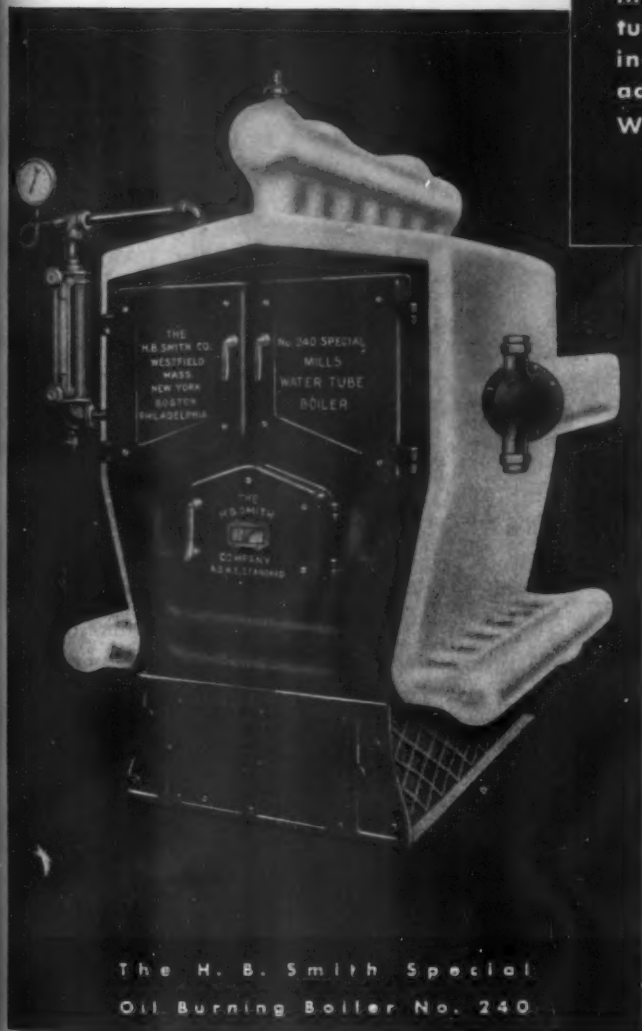
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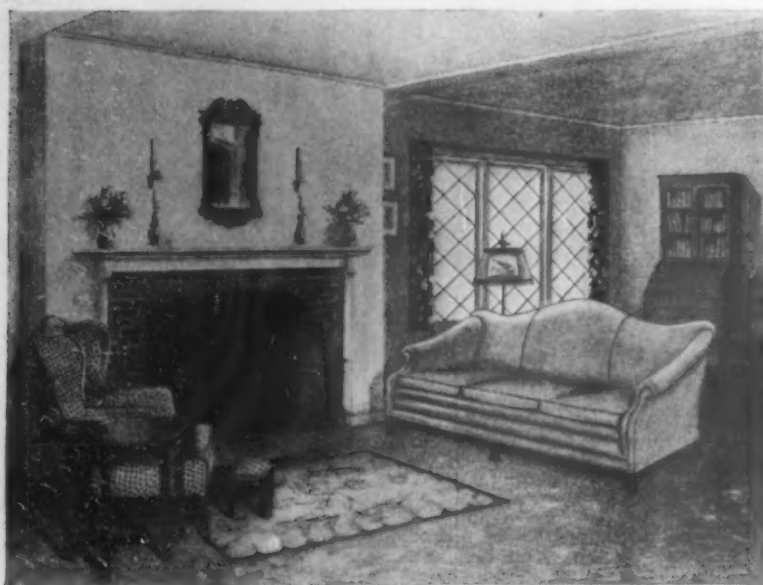
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THOMAS CHIPPENDALE

1779



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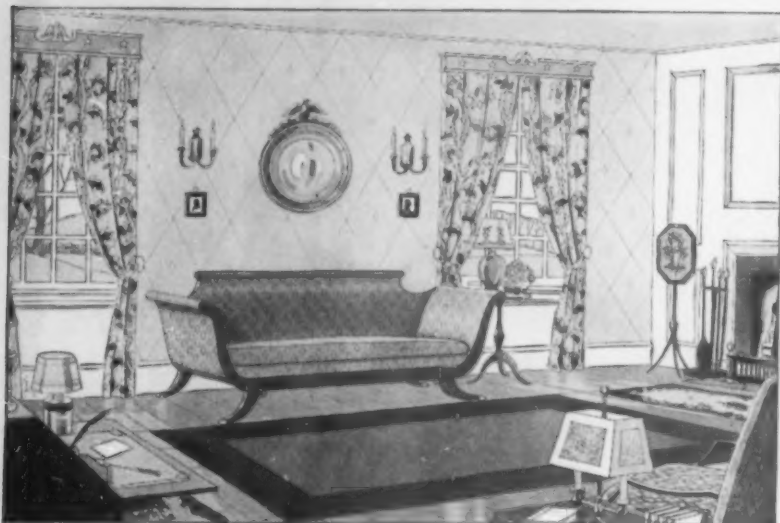
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You will be delighted to hear that Puritan Cretonnes are guaranteed sunfast and washable. You can be sure their beauty will last through sunshine and hot water. To save yourself bother and money look for the Puritan name, trademark and guarantee on the selvage of every drapery fabric you buy.

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Send 25 cents for "Cretonne Solves the Problem." Such a wealth of information and help! Every home loving woman should own it. Also we will send you "50 Points on Making Draperies" for 10 cents. Send coupon today.

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Why there's a way

to keep it from getting dirty at all



UNWAXED SURFACE

WAXED SURFACE

These enlarged unretouched photographs show the difference between finger marks left on waxed and unwaxed surfaces. They illustrate recent tests scientifically made by Henry W. Banks, III, famous scientist and chemist. See how the protective coating of Johnson's Liquid Wax wards off soil and smudges.

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Among the authentic details which add charm to this Colonial residence is a complete equipment of Sargent Hardware. Richard W. Mearns, architect; J. Craig Janney, associate, Philadelphia.

FOR THE DESIRED NOTE OF CHARM

FOR the true home-lover who is thinking of building, few pleasures are keener than those found in poring over plans and in deciding on final arrangements and equipment. And few efforts are more amply repaid. Many years of happiness and complete satisfaction are the reward.

The hardware for your new home deserves special attention in your plans. On

it depends the artistic finish of every room, the smooth operation of every moving part of the building, and the maximum security of your loved ones and your belongings. One hardware purchase is all that is necessary — if you insist on Sargent Hardware. Such equipment is a guarantee of lasting satisfaction. Of solid brass or bronze and the finest precision workmanship, Sargent Hardware assures complete freedom from hardware worries — sagging hinges, doors that will not latch, surfaces that wear and streak the woodwork. With hardware equipment by Sargent, replacements are unnecessary.

Sargent offers a wealth of designs that are beautifully appropriate for every architectural style — a distinct aid in attaining any desired note of charm in decoration. Write for our illustrated booklet, "Hardware for Utility and Ornamentation." It contains much of interest and instruction concerning home equipment and gives an idea of the completeness and the beauty of Sargent Hardware. Sargent & Company, New Haven, Conn.; 295 Madison Ave., New York; 150 North Wacker Drive, Chicago.

SARGENT
LOCKS AND HARDWARE



The design of Sargent Hardware blends perfectly with the spirit of this home's furnishings and decoration. The items above are especially appropriate for buildings of this type.



Harold Holiday Cortain

The Glory of the Pool

The witchery of A WATER GARDEN

by ROMAIN B. WARE

THERE is a legend among the Saranac Indians of Wayotah, a chief, loving a fair maiden, Oseetah. The maiden, promised by her parents to another but loving the young chief, throws herself into the "Lake of Clustered Stars" and thus the Waterlily is born.

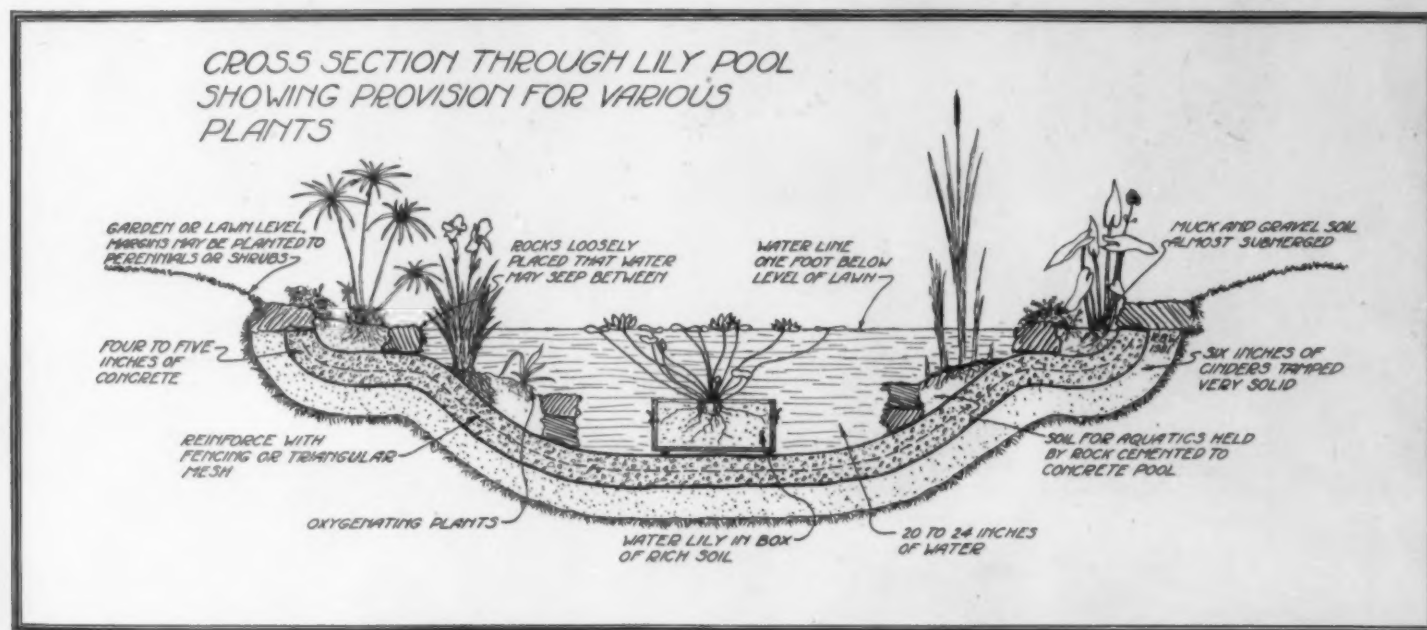
As practical gardeners, legends and myths play but a small part in our lives. We seek to develop gardens of delightful charm, gardens wherein the flowers and shrubs make pictures of pleasing beauty. And in this endeavor the Waterlily and various other plants associated with it play a most important part. There is an extreme simplicity to the growing of this floral treasure. Few if any other plants may be flowered with as little care. No cultivation is needed, disease is practically unknown, insects are of little bother hence no need of spraying, in fact Waterlilies almost care for themselves.

In small gardens the pool either with or without a tiny

fountain has long been in favor. The fountain is little used to-day except in the more formal types of gardens, but the small pool with its mirrorlike surface brings a touch of life to the garden obtainable in no other way. Even tiny pools no larger than a tub add immeasurably to their interest and charm.

There are, however, some simple requirements to be observed if a pool is to be pleasing and satisfactory. You will find little vegetation growing in the shaded woodland pool. It is the open, sunlit pond where Waterlilies jewel the surface and the shores are alive with color. So in selecting a location for your pool keep this in mind. Too, the location should be the lowest point in the yard. Water naturally seeks the lower levels and to build a pool higher than the surrounding garden violates natural laws. Sometimes in the architectural development of a garden, possibly on a terrace, a formal pool may be desirable

The Lotus was the favorite flower of the Egyptians years ago. To-day, the Waterlily through its beauty and ease of cultivation, holds the same high place in our affection that the Lotus did with Cleopatra's countrymen.





Costain

The Waterlily is indeed a child of the sun and cannot give as gracious flowers in a shaded woodland alcove, nor does it like swiftly moving water. In a small pool the Waterlily plant should have some of its leaves removed occasionally through the season to prevent a crowded condition

Even a tiny pool with its mirrorlike surface brings a touch of life to the garden obtainable in no other way. Set behind the enclosing hedge along the sidewalk is this charming little pool for aquatic plants, a center of interest from the sunporch of the dwelling

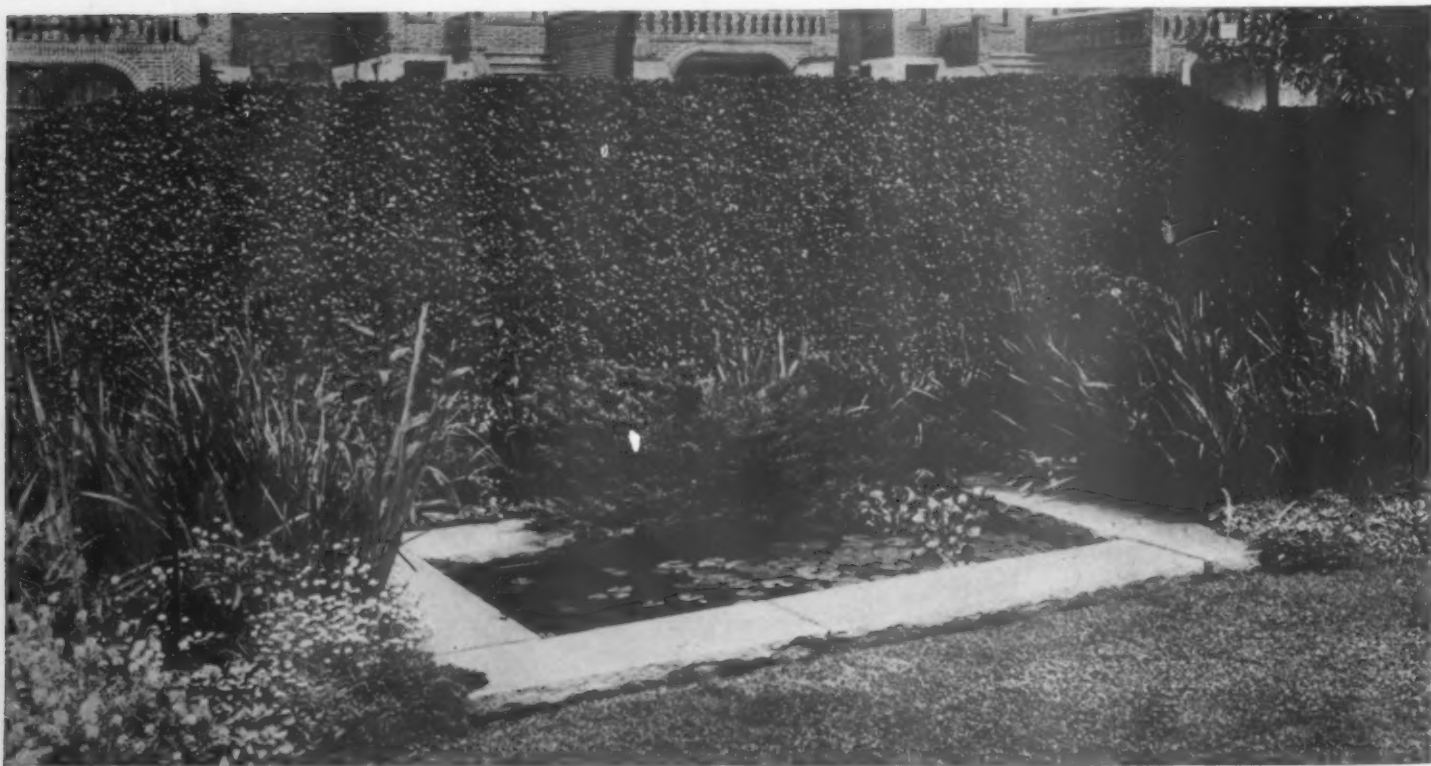
even though it be higher than other parts of the garden but in general garden planning, especially when along naturalistic lines, the rule should be observed.

In locating a pool it is possible frequently to grade the surroundings, using the soil from the pool excavation and adjacent area to build quite a sizable embankment above and beyond the pool which may be developed as a rock garden. The upper edge could be supported by a wall and screened by a tall shrubbery background and, if well done, the effect will appear very natural. The surroundings of a pool have much to do with its artistic success, especially where one strives to achieve a natural effect. Most successful pools are made of concrete but they should be so planned and constructed that no concrete is visible. This applies particularly to the edge or coping of the pool. Conceal it with soil, rocks, or plants and keep the water level six inches or a foot below the surrounding garden level. These seemingly minor details have a great deal to do with the artistic effect

of the finished pool and garden.

The plant material used in and around a pool is of vital importance too. The amount will depend upon the size of water area. Do not make the mistake of planting so much that no water can be seen as the gleaming, mirrorlike surface of water is no small part of the charm of the pool. In a pool up to five feet in diameter, one Waterlily plant is enough; and even this must have numerous leaves removed now and then through the season to prevent a crowded condition. Don't be afraid to pull them out; it seems the more you pull the faster they grow.

Waterlilies come in two general classes, hardy and tender or tropical, the latter having both day and night blooming varieties. In medium-sized pools say ten or twelve feet long, two or three kinds may be (Continued on page 468)



TWO SMALL GLORIES OF THE GARDEN

Pansies and Violas

by LINDA CLEMENT HINES



Cortain

The lush glowing flower of the Pansy in its modern form has a size and richness that make it welcome for spring bloom



The free flowering Viola, also known as Tufted Pansy, a little less showy and smaller, better endures hot weather and can be kept in almost continuous bloom by a little management

THOSE who have come to prize the dainty beauty of our Bedding Violas may feel that some of the charm of Eden must have been lacking because of the absence of this flower, for its birth in England dates back only about eighty years. Violas have a more or less common ancestry with the Pansy, and they, too, are very near relatives of the Violet. The Pansy itself has been known to a flower-loving world for many centuries. In the course of evolution *Viola cornuta*, better known as Horned Violets or Tufted Pansies, retained many of the characteristics of the mother plant but lost most of the blotches, striped, variegated or other distinctive color traits. It acquired, however, a constitution able to resist heat; this being the

prime reason for its existence and popularity. The massive spring-blooming Pansies depart with the first heat and drought while the dependable little Violas, less ostentatious, but no less beautiful in their service, "carry on."

It is a generally accepted fact that many foreign seeds, freshly imported, either do not germinate well or else function poorly the first season after seeding in our soils. This is said to be especially true of Violas, born and bred in the moist cool climate of England. However, after plants have been grown for several seasons they become acclimated and behave as native. But there is the recorded paradox that should forever

blast this theory concerning the lovely little Viola. For did not the most famous variety in the world to-day, Jersey Gem, "happen along" in a batch of seedlings which came from freshly imported English stock? Does not the possibility exist that other equally indispensable varieties may still come from other climates than ours? It would behoove us then to plant our well-tested American strains but continue to experiment with the imported as well.

The final test of adaptability and utility of any flowering plant is its unquestioned acceptance by the florist's trade. Cool and calculating commercialists are in no way sentimental as to the beauty or bewitching charm of any flower save in its buying appeal to the American public. What do these traders in the mart think of the Viola? Says one, quoting exactly: "Florists who have tried the *cornuta* type of Viola think considerable of them as substitutes for the more difficult Violet. This is especially true of such varieties as Jersey Gem and George Werming. (Continued on page 500)



? Why grow VEGETABLES

Quality in the home garden

by ADOLPH KRUHM

CERTAIN vegetables which are readily bought on the market at almost any time of the year, seldom carry a full measure of that elusive factor called "quality." The reasons for this are many, therefore let's take a look at the principal ones.

The vast majority of vegetables offered across the market bench are grown for a combination of good appearance, size, and keeping qualities. To "stand up" well on the market bench, after having been gathered the night before, is the supreme test of any vegetable—as far as the grower is concerned. Naturally, those containing the greatest amount of fibre stand up best—and are the toughest! As a result we still get actual "string" beans instead of stringless ones, woody beets and turnips, not to mention thick-skinned tomatoes and pithy radishes.

THE last named bring us face to face with the element of size, for pithy or spongy radishes are overgrown. Decades of educational endeavors on the part of the progressive seedsmen have made very little impression on the public's tendency to look for anything other than size. Oh yes, quality is desirable, but large size is absolutely necessary so far as the majority of gardeners is concerned. Yet the two seldom go hand in hand. As an example, take that comparatively little known variety of Lettuce called Crisp-as-Ice. It is undersized, and has a forbidding looking exterior of deep bronzy-green leaves, yet within it carries a heart of gold of a flavor which, by comparison, causes many more popular varieties to taste rather insipid.

Whatever may be your personal likes and dislikes for one vegetable or another, let the following factors guide you in making selections for the home garden:

1, Relative popularity of the vegetable. 2, Ease of cultivation. 3, Returns for space and labor invested. 4, Practical usefulness of crop when it is harvested.

Remember also that most of the popular

vegetables can be bought cheaply—except early in the season; and that some easily grown vegetables are easily spoiled by wrong cultivation.

All crops requiring a long season to mature are expensive because they occupy the ground all summer and fall. On this basis I would divide the entire list of vegetables into two groups: (1) those that may be bought on the market with reasonable certainty and that are of good quality; and (2) those that you should grow yourself, because in these, quality can rarely be bought.

One cabbage is about as good as another, making allowance for the variation in flavor between ordinary White, Savoy, and Red types. Pumpkins, squashes, melons, potatoes, etc. should be considered as farm crops. Cucumbers are 99 per cent water, anyway, besides taking up more space than the crop is worth. Reasoning along these lines we can sift down to eight important ones for the home garden all the host that the vegetable lists try to tempt us with, namely: bush beans, corn, peas, tomatoes, lettuce, onions, radishes, beets.

Economy dictates the preferential growing of early maturing varieties in all these classes, and for two reasons: Fresh vegetables are most expensive early in the season; and the sooner a crop matures, the sooner the space it occupied can be planted to another crop. Where the home gardener cultivates a utility garden of about 50 x 50 ft., a hotbed or coldframe, in which to start plants early, is a distinct advantage.

Assuming that the average kitchen garden is just about half that size, or say 20 x 30 ft., here (Continued on page 498)

You cannot buy in the market refined varieties of high quality vegetables such as can be grown in the home garden. Fine vegetable growing at home has become almost a lost art since the days of war gardens when it was overdone. Why not grow your own good vegetables, the like of which you cannot buy?

A house without flowers is like dough without yeast. Most of the familiar flowers for cutting can be grown easily so there is no real reason, as this article shows, why your house should be without the added joy of flowers.



Planting for Picking

*The part flowers play in
interior decoration*

by ANDERSON McCULLY

A CUTTING garden means that there are always flowers for the house without destroying the garden beauty. It means armfuls ready for passing guests. There is a personal touch in the unstinted gift of flowers. But beyond this, it should also mean that the blooms are going to be mannerly guests with pleasing fragrances, or else none at all. They will be chosen for their ability to hold their heads firmly, to last long in water, for the colors and forms to suit our rooms; and then we should be good hosts enough to choose little groups of those that make good vase companions.

In planning the cut flower garden we must remember that, as in the vegetable garden, our object here is produce. A long succession of blooming flowers is the important thing; while the plant itself, beyond its health, is of little moment. We follow the methods of the kitchen plot rather than those of the flower border, often resorting to intensive cultivation and feeding, with rotating rows. Where time is limited, the strip of paper mulch may help to keep down weeds.

Annuals are the most prolific flower bearers because they must trust to their seeds alone for continuation. The average annual, with its short life cycle, needs sun, moisture, and good loam to live intensely. This condition also very well suits the majority of the bulbs; and these are extremely valuable for the early spring bloom before the annuals are well under way.

Flowering shrubs or Roses may make an effective and useful screen between the decorative and the cutting garden. Roses, in both fine new hybrids and older less aristocratic types, are splendidly decorative. A Doctor Van Fleet would



*Snapdragon and Baby-breath are shown in the bowl illustrated above. Lilies in tawny to orange scarlet shades are good against the background of old walnut. Always note the particular directions for depth of planting when you buy Lilies, as some are stem rooting, others base. The *L. dauricum* pictured at left blooms in June and July, and should be planted 5 inches deep*



The blue of Cornflower is true and clear but there are also varieties in pink and white which combine well with other flowers. Stocks are used in the arrangement shown above; they have a sweet, spicy fragrance which is very pleasing in the house



Cut whole branches or sprays of the cluster-flowered Climbing Roses for bold arrangements in large vases for hall decoration. You can cut freely and benefit the plant too

well cover an arch to the cutting garden, or an American Pillar will festoon from pole to pole. The old "Jack" Rose has a wonderful fragrance, and hides the short stems in a low glass bowl, while its poorer bush and habit are not out of place in the cutting garden. This is true of many of the older Roses.

Shrubs give us some of our best early spring bloom, and large massed effects. In choosing Lilacs, watch that fragrance has not been sacrificed to fine new form. Forsythia and Honeysuckle both are good, and Wisteria exquisite. Rhododendrons give rich effects, and Bridalwreath works in well. Bright berried shrubs can brighten the winter rooms.

Annuals in planting divide themselves naturally into two classes—those that may be sown where they are to bloom, and merely thinned out; and those that first must be planted in boxes inside, and then shifted on. Naturally the first method is far more simple, and those of you who are pressed for time will do well to choose from this group.

The China Asters do not take kindly to manure, and are better with a commercial fertilizer. They also demand lime, and it is customary to ring them with wood ashes. Spray both plants and soil with a nicotine solution, and like the Sweet-peas, do not plant them in the same place the second year. Run a few strings lengthwise of the row to keep them from sprawling or becoming mud spattered. The early flowering Queen of the Market types may be had in bloom in July if started indoors in March. The Ostrich Feather types follow this; then the Giant Comet and Late Branching glorify the fall. These later may be sown where they are to bloom if you have a fine layer of soil for the seeds, and thin the seedlings relentlessly.

A GOOD combination for a large basket or jar is made up of blue Larkspur, orange African Marigolds, soft pink Stocks, and light blue Scabiosa, the two last being deliciously fragrant and of long blooming period. The Scabiosa (Mourning Bride or Cushion Flower) comes in both annual and perennial forms. The latter, *S. caucasica*, is light blue, and blooms for nearly five months, beginning in June, particularly needing a sunny place. It lasts well in water. The sweet annual *S. atropurpurea* is hardy, and comes from deep purple to mauve, scarlet to pink, and white.

The gorgeously colored Zinnias like a light rich soil with some leafmold. Every year sees finer strains in both form and rich coloring, and it pays here to spend a little extra for special seed. They bloom through summer and fall; and group well with Gladiolus, or may be massed by themselves.

Other good things for the cutting garden are Centaurea, Candytuft, Heliotrope, Dahlias, Mignonette, Salpiglossis (a little sticky), Clarkia, Cosmos, Coreopsis, Verbena, Pentstemon, Queen Anne's Laceflower, and Daylilies. The two last would group beautifully in a vase. The blue Cornflower is splendid for working in with other things, and a true blue. Schizanthus is exquisite, but takes rather careful attention.

Pansies and Violas seem to appeal to children—perhaps fortunately, as both of these need constant picking. The border edgings can often supply these. (Continued on page 508)



Costain

A practical substitute for a natural stone walk as shown to left may be made, in position, by concrete poured in forms and arranged in random manner. These slabs will set firmly in place

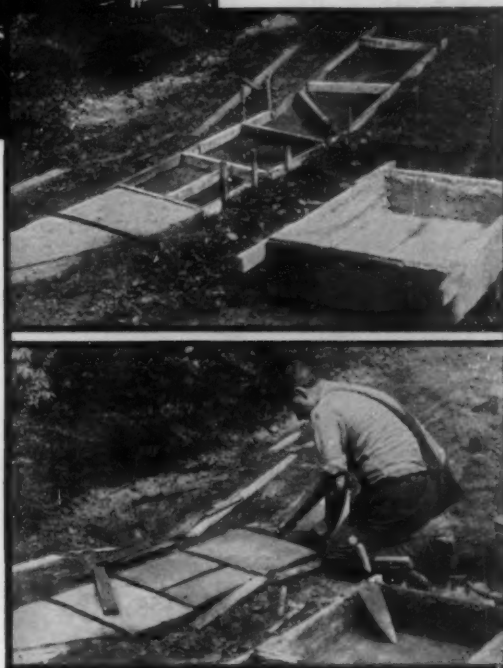
Stepping Stones

Concrete ideas for the garden

by E. BADE

FLAT rocks and stone flags sunk into the lawn often offer the most practical solution of path making in the small garden. They can be kept clean with a minimum amount of labor and the lawn mower passes easily over the stones and will cut the grass between the flags. There is no weeding of the path, no extra work to keep it in condition and, above all, it is not necessary to renew the pebbles, gravel, or whatnot each year. Such stepping stones sunk into the lawn never give the impression of dividing it into various fragments. But flagstones cannot always be obtained easily, and cast concrete slabs are a welcome substitute almost as good, and they can be cast in place by simply made forms of wood. Such concrete blocks may be tinted by suitable colors added to the concrete mixture, if desired, but generally the natural normal gray color is quite satisfactory.

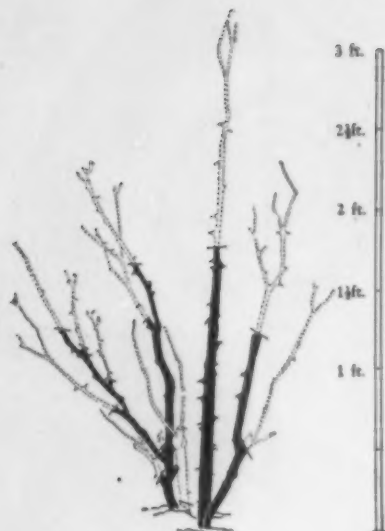
The blocks of such a walk should be of irregular size, but fitting more or less regularly into one pattern. Avoid too great irregularity which would give the path a jagged outline. The thickness of the block need not exceed two or three inches and the forms are laid out to correspond to this dimension. It is important that the concrete be poured directly on the place where it is to remain, for only then will the blocks be firmly placed on the ground. If they are first



cast and then set in place, difficulty will be encountered in laying them smoothly and firmly.

Dig out the space for the walk to a depth of two or more inches. The sides are then provided with slats of the desired thickness, held in position with pegs driven into the ground on the outside. The division of the path into smaller blocks of irregular size and shape is accomplished by inserting smaller cross and longitudinal as well as diagonal strips of wood. Just how they are to be placed is a matter of individual taste. The strips of wood serve to break the path into small blocks and also to leave room between the blocks into which soil is later placed and grass seed sown. Reinforcement by wire netting put in before the concrete is poured is quite practical but hardly necessary.

THIS division of the path into small individual blocks also serves another purpose. The frost cannot break the walk into fragments, for each small block is not directly connected to its neighbor and so it may expand, contract, and rise and fall without affecting the next block. (Continued on page 492)



For the vigorous growing bush type; up to 2 ft.

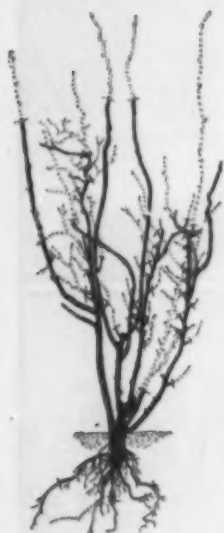


Correct pruning for bloom must vary according to the type of plant, the growth, soil, and also the kind and size of flower that is wanted



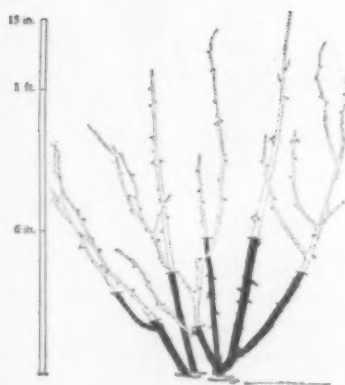
For the average type of bush plant; 1 ft.

The fine points of Rose Pruning



Newly arrived strong Climber; pruning of stem and root shown, also planting depth

by J. H. NICOLAS



Climbing Rose at planting time; note root dressing



The most slender type of bush is cut to six inches

PRUNING of Rose plants may be either necessary, advisable, or optional. It is necessary in regions where winter has killed part of the wood. It is advisable when superior flowers are desired. The quality of the rose will be commensurate with the severity of the pruning; the shorter and fewer the branches left on the plant, the longer will be the stems, the larger the flowers although in less quantity, and also the later will be the blooming season. The severity of pruning must also be in relation with the fertility of the soil, its ability to support the plant. In hard clay soil poor in humus, shorter pruning will give better results while Roses in deep rich soil will produce beautiful flowers although pruned much longer. In such soil complemented by mild winters and long growing seasons, pruning becomes optional and most Hybrid Tea and Pernetiana varieties may be treated as large ever-blooming shrubs, but then of course the flowers are not of exhibition quality, the stems are short—unfit for cutting—but the decoration value of the plant is very high, great masses of brilliant colors illuminating, as it were, the whole garden for a long

season. I saw in northern Italy, at Turin, where the thermometer at times goes to zero, bushes of Mme. Edouard Herriot, K of K, Mme. Caroline Testout, and even Los Angeles seven feet high and nearly that much in width. We have to consider the foliage, too, and in that particular rose heaven our ubiquitous friend black spot is unknown. Such treatment, even where feasible, is for large estates only, and we had better practice medium or close pruning in the everyday home gardens, especially when Roses are planted in beds.

In pruning Bush Roses of all types or classes the first operation is the same: cleaning the base of the plant, removing all dead wood, then the weak twiggy branches that often crowd the base—parasites living on the plant's vitality without bearing a flower. We then proceed to remove the old wood which has bloomed for two years or more, served its time and reached the retirement age, as rose wood in general is but short lived, or rather its utility as flower bearer is on the wane after two years. Old wood is easily recognized by its dark color and the general appearance (Continued on page 502)

IRIS

Hardy Beauty of the Garden

by CHARLES E. F. GERSDORFF

*Iris along the Speedway, Poto-
mac Park, Washington, D. C.*

Too much emphasis has been placed upon the exhibition qualities of Bearded Iris, it seems to me, to its detriment as an outdoor flower. Yet, it is in the garden and in the landscape that its chief value lies—beauty of foliage, flower, and perfume, and charm in its effectiveness in garden pictures.

I am about to impart some radical ideas as to its culture, all based upon personal experiences with this gay and colorful flower. I have found this plant not at all particular as to type of soil for mere existence. I have seen old plantings midst tall grasses and weeds which continually gave bursts of bloom, season after season; I have seen plantings in stiff, dry clay which would not nourish weeds that thrived and bloomed. Though it cannot be said that these adverse conditions were conducive to best growth and bloom, they were truly illustrative of the fact that the Iris fits with ease into the garden picture.

Whatever the type of soil available, it should be well drained and preferably in the open, though the light shade produced by low shrubbery or fairly distant trees permits more luxuriant growth than might normally be expected from a sun loving class of plants; and in some cases, some varieties seemed to be most happy when growing in light shade. Prepare the soil well in advance of planting. If lacking in humus use peat moss or well rotted animal manures, well worked in.

There are a few varieties like Isoline and Mme. Durand which require extremely dry growing (Continued on page 504)



SAFETY

from

Cellar to Attic

by MOLLIE AMOS POLK

TO THE weary householder, returning after a day of dodging taxicabs and buses, home may look like a haven of refuge whose threshold bars all danger. But to the gentlemen who brood thoughtfully over long columns of statistics in the offices of the National Safety Council and the United States Bureau of Standards, our homes must seem far otherwise. For it is part of the task of these august bodies to investigate the causes of various accidents, and the things they tell us about the average householder make him seem like a pretty reckless citizen.

Lately, through the coöperation of the General Federation of Women's Clubs, they have conducted a searching study of the accidents which occur in and around our homes and now report that more than a quarter of the fatal accidents each year in the United States are, so to speak, homemade.

According to the calculations of the National Safety Council the intrepid homecomer faces dangers which caused, last year, about twenty-three thousand deaths and countless other more or less serious accidents. These dangers, we are further assured, are, to a large extent, the creation of the householder's own carelessness or the bad planning or management of his home and hence are avoidable.

What are the ingredients of these homemade accidents, and how can we build, choose, or remodel our homes so as to keep out of the hospital and statistical column?

Records of the insurance companies indicate that there are four principal types of fatal accidents in the home: falls; burns, scalds, explosions, and electric shocks; asphyxiation and suffocation; and poisons. Since falls have long headed the list as the most common cause of serious and minor injuries in the home this household peril has been given special attention. The Bureau of Standards, in a circular now in preparation, points out some common danger spots and suggests ways of making them safer.

CELLAR and attic stairs without hand rails are the scene of many bad accidents, and the Bureau urges that even when stairs lead between close walls they be equipped with railings. Smooth walls, no matter how near, offer no handhold to check a headlong fall in case of misstep.

Poor lighting also adds to the stairway hazard. Lights in the sidewalls which throw deceptive shadows are to be avoided. The ideal system places a light over each landing with switches which will control the light from both floors. When there are young children or elderly people in the fam-

ily a small light or one of the "high-low" devices will be found a further safeguard against falls or bumps during the inevitable night journeyings about the upper hall.

A WET, slippery bottom and sides of the bathtub offer another hazard which is only too familiar to most of us. A handgrip placed on the wall just over the soap dish and another under the shower at shoulder height will take shower bathing out of the class of hazardous occupations and enable one to step out of the bath with dignity and safety. One can buy these handgrips in porcelain ready-mounted in tile to be built into the walls of a new bathroom, or they may be added to a tile bathroom, although the latter is more difficult since it involves the removal of a tile or two.

As an alternative, one may buy a bathtub mat, fashioned of fine rubber sponge with tiny suction cups on its reverse side which make it cling to the bottom of the tub, thus offering a stable foothold for even the most active bather.

The Bureau of Standards has also been testing various preparations for holding small rugs in position on polished floors, for the records show that skidding rugs contribute their quota of bad falls and are the special enemy of children and elderly people. Snap buttons attached to the floor with corresponding snaps on the rug are very efficient stabilizers, but have proved a little hard on the fabric.

A rubber tape which is gummed on one side like an automobile tire patch and soft and spongy on the other, offers a surface which clings tenaciously to the polished floor without marring it and does its work without damaging the rug.

A liquid preparation which is intended to be applied like varnish to the reverse of the rug is another safeguard against skidding. A pint of this liquid costs about a dollar and a quarter and will treat an area six feet square. Dry cleaning will remove the preparation and accumulated dust quite easily, and successive treatments are guaranteed not to harm even the most delicate colors and fabric.

Another product is a coarse, cloth-like burlap which one may buy ready-treated with adhesive fluid. When the underside of a rug is covered with this cloth the rug will stay in place, even when it is being swept by the vacuum cleaner. Like the former preparation, its efficiency will not survive the dry cleaner.

Because of the increased and increasing use of electricity in our homes the Bureau of Standards and the National Safety Council urge those building houses to make sure that their wiring specifications call for (Continued on page 462)





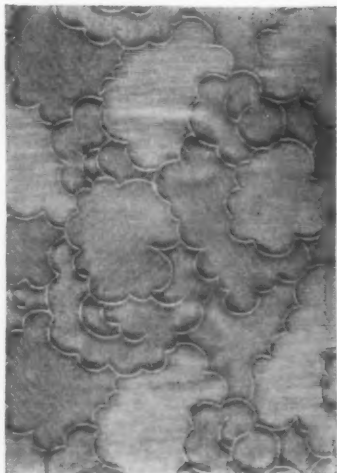
M. E. Hewitt

Charming in a young girl's bedroom are the self patterned shades in floral effects. With this type of shade only simple, sheer glass curtains or plain over-draperies of a solid color should be used. Some of the newer fabrics for window shades are shown below

What about your Window Shades?

An often neglected feature

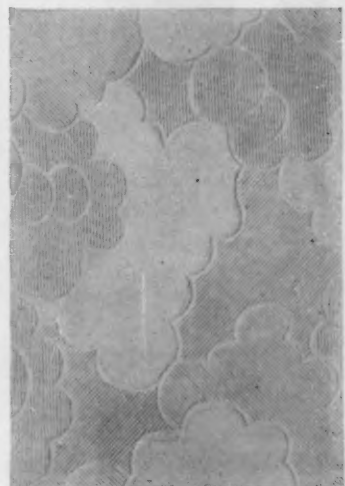
by GERTRUDE WARBURTON



THE windows of a house about this time of year when spring renovating is in order demand attention from a practical viewpoint as well as a decorative one. Lighter and often less expensive fabrics are chosen to withstand the onslaught of the summer sun and admit as much air as possible. For so many years the window shade has been the stepsister of the window ensemble that it is too often the weak spot in an otherwise delightful room.

Shades are very much like accessories to a woman's costume—inconspicuous if correct but abominable if wrong. For very little cost, the window shades in your home can add exactly the right note of color to the room, soften and control the light, and protect your draperies and furniture from exposure to sun and rain. The old shades may perform many of these duties satisfactorily and yet spoil the appearance of either the exterior or interior of your home.

Let us consider the performance of (Continued on page 482)

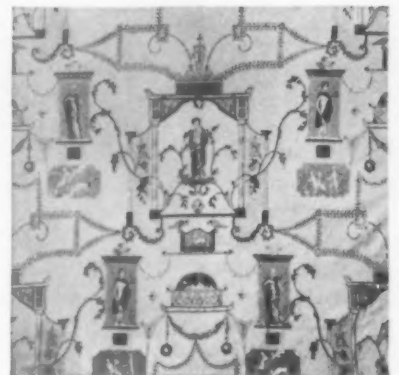


FASHIONS

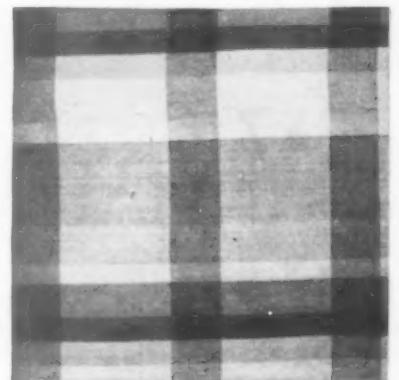
in Fabrics



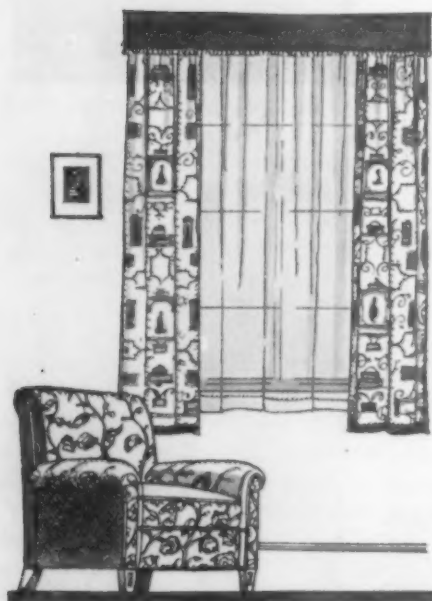
Draperies of a new fabric of block plaid design are very appropriate in a room of modern influence. The room that uses the fine lines of the Directoire will find its complement in the fabric (below) whose design is reproduced from one of the period, typical in its use of garlands and classical motifs



With the increasing popularity of Directoire design this authentic reproduction will solve many problems

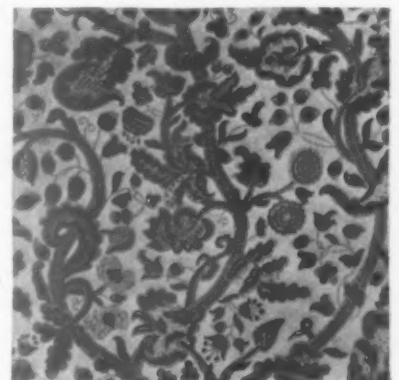


Lovely imported taffeta woven from mercerized Egyptian yarns combines rose and gray in block plaid design



Sketches by Lawrence Garcia

BOTH fabrics and wallpapers this season are such as to delight the person who is following a well thought out scheme and knows just what she wants. However, they are apt to offer pitfalls to the unwary shopper ready to be tempted by the individual charm of a design rather than its suitability to her room and furniture, for the almost universal characteristic of the new designs is their definiteness, their attention to tradition if they derive from an older period of design, and what may be called their enlightened modernism if they are contemporary. Many suggest at once their appropriate surroundings. One wallpaper is the perfect background for Early American maple furniture, another would harmonize to perfection with Queen Anne styles, a pastoral design taken from an old toile calls for the delightful furniture of eighteenth-century France, a design dealing chiefly with goldfish in a bowl and a bunch of cherries would be right for a sunroom in



The striking Jacobean design on this linen is in black, orange, gold, and green on a ground of natural tone

PATTERNS

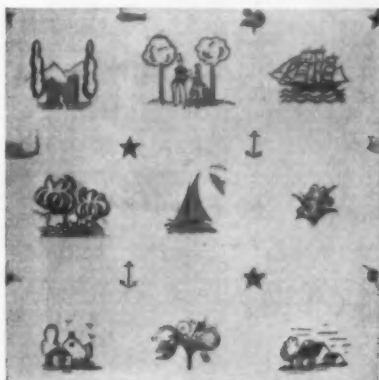
in Papers



The design of this interesting wall-paper was taken from an old New England document of about 1820



This pattern is called "Normandy" and is a successful attempt at capturing the color and detail of an old toile



A nursery paper combines the effect of an 18th century wallcovering with a modern treatment of color and pattern



The pictorial papers now displayed draw on many sources for their inspiration and some of them are charming on screens. The red-coated riders displayed above make a gay decorative note. The simplified pattern below combines touches of blue, green, and violet on a yellow background

the modern manner. Not that many of these designs may not be used in a combination of different periods, but essentially they are a reflection of the current taste for true period design. If used carefully the results will repay any amount of time spent on their planning and selection. Some of the most successful drapery fabrics reproduce faithfully ancient fragments preserved in museums. Although older periods are more generously represented than the modern, the latter make up for this by their interest. Anyone planning a room which does not adhere strictly to one period will be wise to consider the modern fabrics, whose vivid, satisfying design makes them fit perfectly into many varied decorative schemes.

There is variety of design, subtlety of color, and excellence of detail in the new fabrics and wallpapers—all available at prices as low as ninety cents a yard for fabric and \$1.00 a roll for wallpaper.



Photographie courtesy, Richard E. Thibaut, Inc.

DECORATORS can't help me. I have a house of no particular style, it is not new, it is not large. It would cost a great deal to redecorate it and no one could possibly make it look as attractive as I want my home to be."

There is tragedy in these words, which are the burden of so many letters to the Editor—the tragedy of frustration. One lives a lifetime in a house that one does not like merely because one has been led to believe that interior decoration is for the very rich, the very artistic, or those who build their own homes.

To disturb the inertia of those who think their houses present insuperable problems, THE AMERICAN HOME chose to offer decorating suggestions for a little house in Salina, Kansas, which is no better and no worse than thousands of others throughout the country.

We enlisted the aid of Jane White Lonsdale and Ethel Reeve, members of The Decorators Club, Inc., of New York, in helping us in this work of education. Miss Lonsdale has chosen the Colonial style, while Miss Reeve has offered a scheme for an English room. Both decorative plans present a number of valuable ideas to home (Continued on page 464)

New Rooms for OLD

Two New York decorators co-operate with THE AMERICAN HOME in decorating a house in Kansas



Jane White Lonsdale and Ethel Reeve, two members of The Decorators' Club, Inc., of New York, suggested schemes for the decoration of this house in Salina, Kansas, which is shown, "as is," in the accompanying photographs. Above is shown the dining room, as seen from the living room; below is the living room with the entrance vestibule at right and the dining room at left. The floor plan of this house is shown on page 449. On the following pages are photographs of models of the decorators' rooms





Photographs by Van Anda

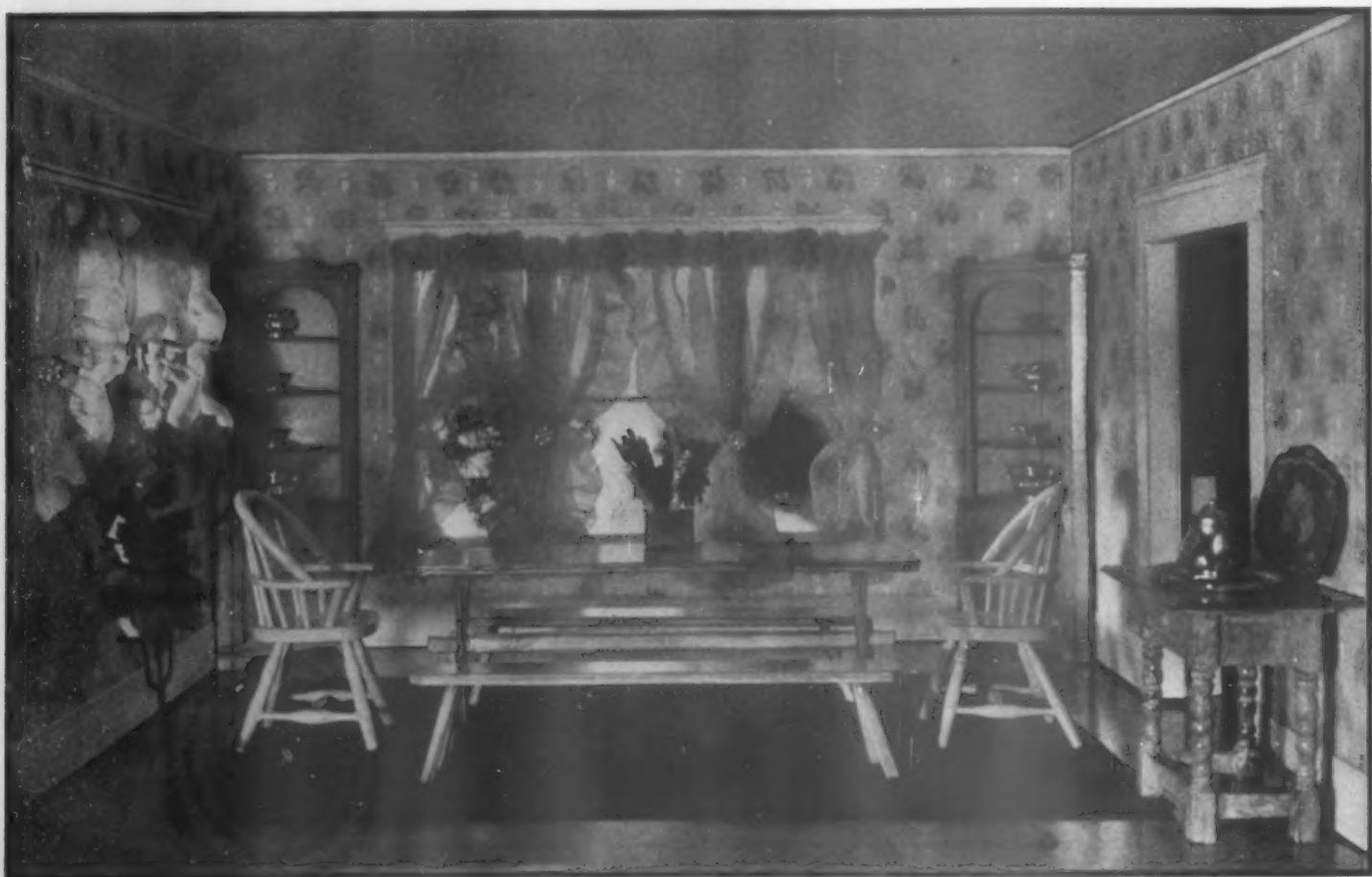
As described in the article on the opposite page, Jane White Lonsdale's scheme for the living room, dining room, and vestibule of the Kansas house includes a wallpaper of warm, pumpkin yellow with falling leaves in shades of soft brown, and conventional dots and units in white. Models have been made of the two decorators' schemes and are illustrated completely in the following four pages

For the floors Miss Lonsdale suggests a medium maple tone, and plain rugs in soft walnut color. The woodwork is white. Two views of the living room are shown on this page. Compare the picture below with the one showing the same corner in the original living room on the opposite page. Bookcases were built in along two walls of the new living room as shown in the bird's-eye view on page 449





MISS LONSDALE continues in the dining room the color scheme of the living room, which creates the effect of one large room rather than two small ones. The walnut-toned rug makes an admirable foil for the saw-buck table, Windsor chairs, long benches, and tavern side-table of maple, as well as for the pine corner cupboards with which the room is furnished. Old pewter stands in these cupboards and adds its silvery sheen to the decorations, and a graceful, hand-wrought plant-stand holds growing ivy plants. The complete decoration suggested by Miss Lonsdale was estimated to cost \$1,496.05, including all furniture, materials, wall-paper, etc., but the cost of putting on the wallpaper, and of making the curtains is not included in this figure as it is very probable these items would vary somewhat in different localities.





IN THE plan worked out by Miss Ethel Reeve the partition between the living room and dining room was removed, and a beam built in to support the floors above. In the space thus secured a fireplace was centered on the long outside wall and was built of cement with a wooden mantel in the Jacobean style. The whole plan of the room, both architectural and decorative, is in the early English manner. The floor boards of narrow, hard pine have been given a dark finish, and the floor is spread with a plain Wilton rug woven in rich, dark green, without borders. The walls have a slightly rough plaster finish toned parchment color. The woodwork is finished in dark English oak. The davenport is covered with a roughly woven, mixed linen in rich tones of orange, flame, yellow, blue, and natural linen color. The deep fireside chair on the opposite side of the hearth also is covered with this gorgeous linen. The large armchair by the front window is covered with green velvet like the pads on the Tudor side chairs.

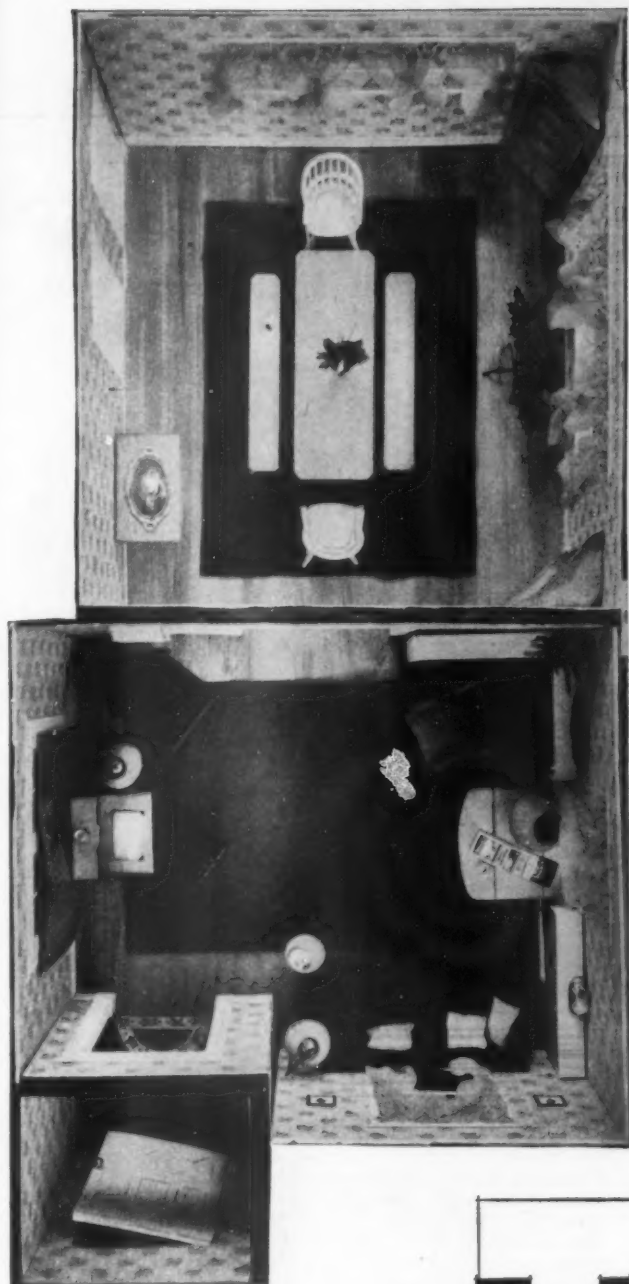


An open dresser in dark oak is one of the most conspicuous pieces of furniture in Miss Reeve's model room. As described in the article on page 444 these photographs illustrate models of rooms and this dresser is at the scale of one inch to the foot, being a true copy of an actual furniture piece. Although this room gives the appearance of being a living room only, the adjustable dining table, and the gate-legged breakfast table permit it to become a handsome dining room with a few quick adaptations of furniture. Under the group of three high windows in the rear wall of this room stands the English oak table with a stretcher base and heavy balustrade legs and leaves which may be opened out to enlarge the table

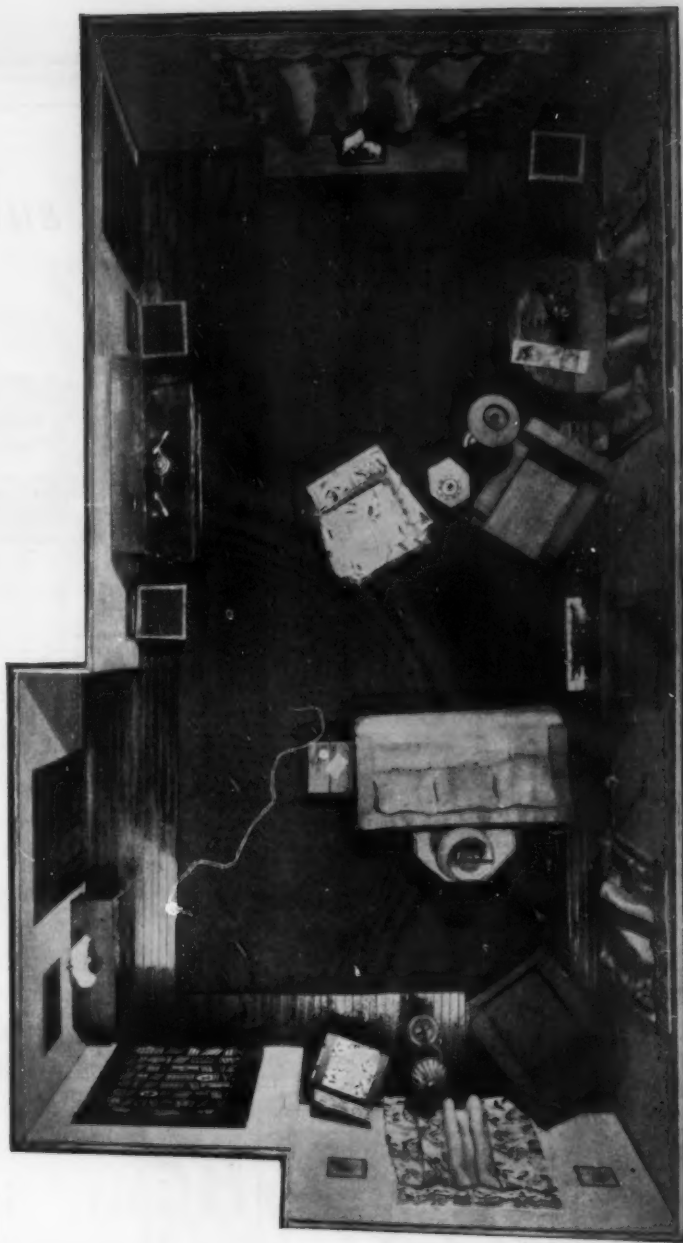


The built-in bookcase, filled with books, also adds a colorful surface of varied tones to the room, and provides interest for the front wall. Between it and the eight-paneled door Miss Reeve has placed a carved oak "hutch" which houses the radio. There is a square mirror on the wall above it in a handsome frame of antique red velvet. The draperies are of hand-blocked Jacobean linen patterned after an old crewelwork design, and they hang to the floor at all the windows except the high case-ments where they reach the sills only. They have deep, scalloped valances, and it is interesting to note that the shape of these valances was adapted from the carved design across the front of the open dresser shown above

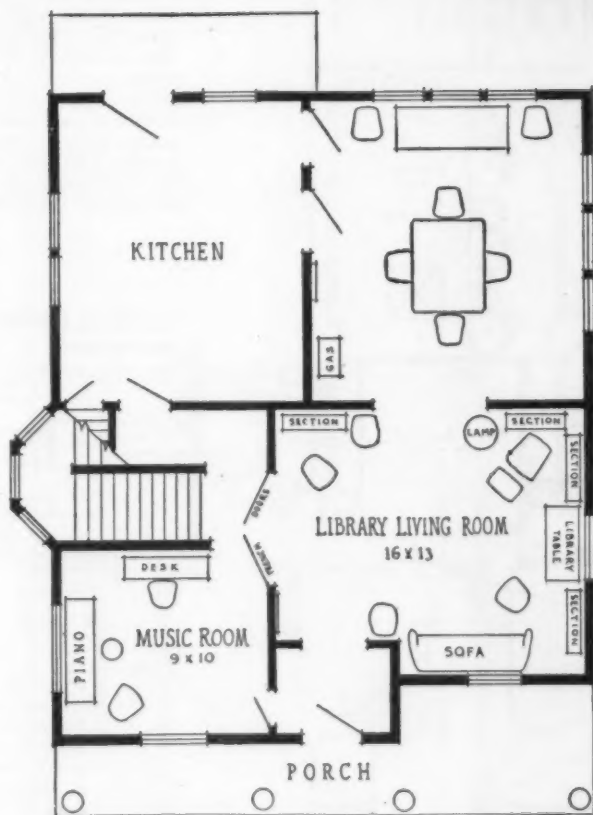




It is easy to grasp the essential features of decorative schemes when one is permitted a bird's-eye view of the whole layout. Above is Miss Lonsdale's scheme for the vestibule, living room, and dining room with the new furniture in place. There should be a door in the left wall of the vestibule to permit entrance into the music room and stair-hall as shown on the original plan



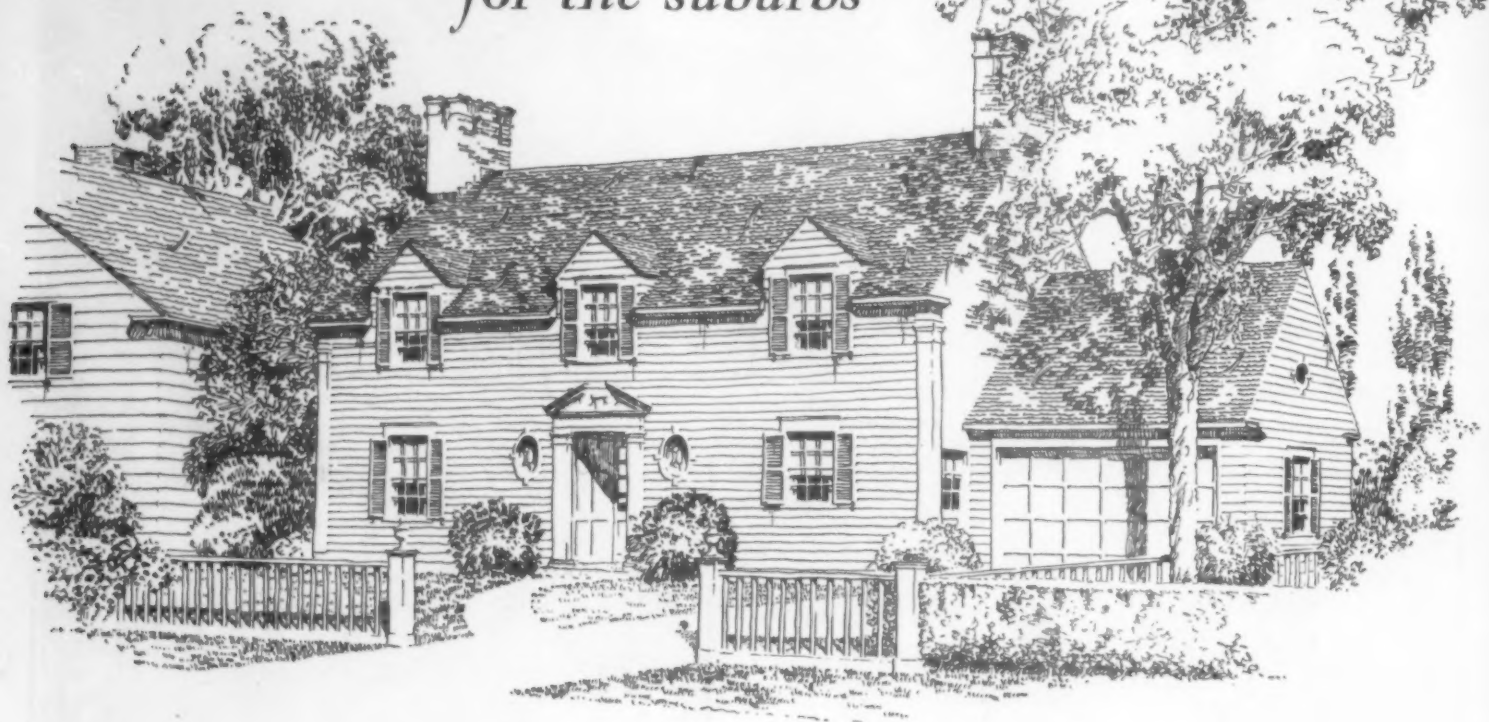
Just above is shown a photograph from a similar point of view of Miss Reeve's scheme. Notice that she has removed the central partition and blocked up the entrance door with a bookcase so that the music room on the plan below becomes the entrance hall and the living room is entered through the smaller door which takes the place of the original large French doors



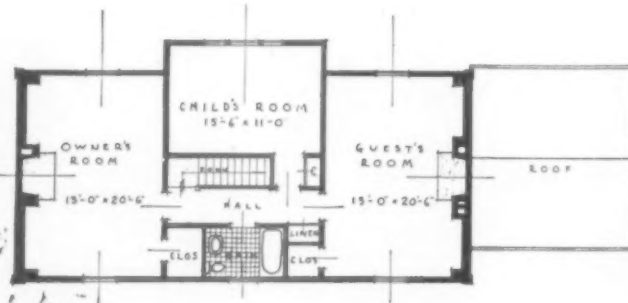
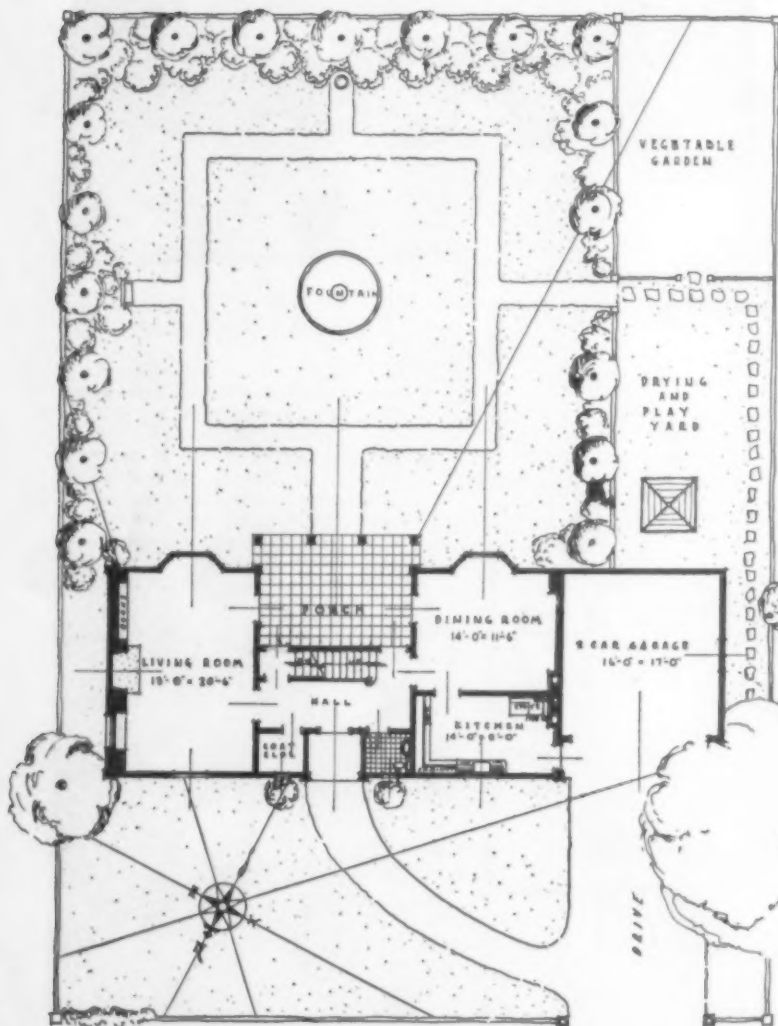
The plan of the first floor of the little house at Salina, Kansas, is shown at the right. The arrangement of the rooms and of the furniture may be compared with the new schemes shown above and on the preceding pages. The photographs of the two rooms as they now are are shown on page 444

COMPACTNESS

for the suburbs



Designed by
STRATTON O. HAMMON



Designing houses for suburban areas presents problems which should not be overlooked. For instance, in the house shown above the two end walls are of brick painted white. This reduces the fire hazard from the garage and adjoining property and is, of course, true to the New England Colonial precedent. At the same time, there is only one window in the end walls so that privacy is assured. The kitchen and garage face the street, the other rooms look out over the garden. The front and rear walls are of clapboard. The architect, a resident of Louisville, estimates the house could be built for about \$11,970, at the rate of 35¢ a cubic foot

A sizable hall with coat closet and lavatory and a large, recessed porch are features of the first floor. The kitchen has a glass door. On the second floor the child's room projects out over the porch. The owner's room and guest's room have large fireplaces. The cubical contents is estimated at 34,200 cubic feet. In the New York area it would probably cost about \$17,000 to build

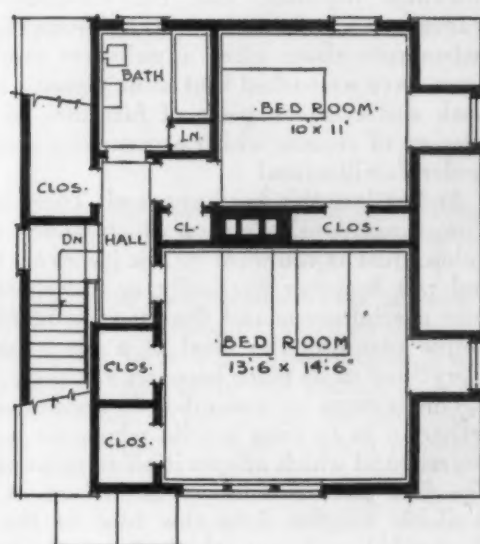


INEXPENSIVE to BUILD

And profitable to own

Designed by JONAS PENDLEBURY

The cubical contents of this house amounts to approximately 17,000 cubic feet and in these days of reduced prices, the probable cost would be \$8,500 or less. Let us take this opportunity to point out that for this investment one has an attractive home of one's own, no rent to pay, and a valuable property. The house is built of stucco for the first floor and clapboards for the second. The floor plans are simple but convenient. In the drawing above, the porch on the first floor is shown enclosed, but in the summertime screens would of course be installed. It may be used as a breakfast room or dining room at any season of year





By combining a number of wooden units that fit together to form a whole it is now possible to build a closet that will meet your particular needs and with such an arrangement there is no excuse for having a thing out of its assigned place

MOST of us, if we were asked to design our own paradise, would be very likely to include in the specifications a demand for enough boxes, compartments, and drawers to provide a place for all those possessions which seem to be too numerous and varied for the space we have to keep them in. We cram gloves and stockings together, lose the handkerchiefs among the scarves, and wrinkle beautifully ironed shirts in a frantic last-minute chase after a pull-over sweater. How many times have we wished that some gigantic mind would set to work and create a piece of furniture to hold the endless number of objects which accumulate around dwellers in a modern civilization!

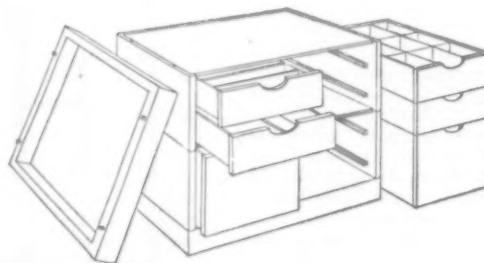
And at last this has happened. There has now appeared a most ingenious invention which makes it possible to build a closet just as you want it. The pieces are bought separately and put together vertically or horizontally according to your special needs and the space to be filled. With a little simple planning the ideal of a place for everything and everything in its place becomes a reality.

This is done by a number of wooden units which fit together so as to form a solid whole, as large or small as is desired, and which adapts itself to great variety of purpose. The first piece is a heavy, solid base in one of the three available lengths. Into this base fit the brass pegs of a three-sided enclosure which forms the ends and back of the whole, and is equipped with slides and slots for the drawers. By building enclosure on enclosure the cabinet may be built as high as you desire, finishing with a heavy wooden top which fits firmly, making a solid chest whose drawers may be pulled out and pushed in as if it were a conventional bureau or chest of drawers. (Continued on page 472)

Closets

that come apart

by DOROTHY STACEY BROWN



A waffle and coffee party is easily carried out and always popular. If there are more than a few guests it is a decided help to have a second waffle iron

That Midnight SUPPER



Photographs by Dana B. Merrill

A bite to eat after the movies

by ELIZABETH H. RUSSELL

LIGHT, savory, unusual, and tempting, these are the requisites for midnight menus, and the gentle art of not making enemies of your friends' digestions may be accomplished with a little careful planning and preparation beforehand. But hospitality should always appear spontaneous; that is its greatest appeal to the guests.

There should be a feeling of friendliness and gaiety, of getting a dividend on your evening whether the movie or the play has been a success or not, when you all walk into the living room and see, through open doors, a hospitable table spread for that "little meal" which reveals the sophistication of the hostess as no other form of entertaining does.

The staff of a household governs the serving of this meal, as it does all others, but in no form of entertainment is there such a good chance to make informality appear as a charm and not as a necessary makeshift as in the late evening supper. The whole meal may be prepared beforehand and left in the refrigerator and pantry until wanted. Cold meats, sandwiches, relishes, cakes, and ice cream may all be made

early in the day, and carefully packed until the guests come when all may join in raiding the ice box, and in helping the hostess to serve.

Perhaps you will prefer, as many hostesses do, to have a buffet supper as this is easier to manage than a sit-down-at-the-table meal, and if you have a big open fireplace, this method is very popular. The guests will scatter to comfortable seats around the fire, to low chairs, the davenport, or those big leather ottomans which are such a practical addition to fireside parties.

MANY hostesses keep sets of individual trays for this form of entertaining, and whoever invented them deserves a vote of thanks, for they provide an ideal way to serve a picnic meal. Each guest takes his own tray, and may thus be independent, sitting where he pleases. Other hostesses have convenient nests of small tables, which may be moved about the room, and which provide



A simple informal spread gives an opportunity to use your gaily colored peasant linens. A piquant canapé, a crisp salad, crackers and cheese, olives, and ginger ale, grape juice or other ingredients for making a refreshing drink may be gathered together quickly for a palatable evening snack.

surfaces on which the guests may rest plates, cups, and glasses in comfort. There should be bowls of cigarettes and boxes of matches, too, if you wish your guests to sing your praises. A table lighter, specially one of the new models which lights when tipped, may stand conveniently near by the sources of supply.

Winter parties suggest a supply of dry logs to replenish the glowing fire on the hearth, and driftwood or its commercial substitute, pine cones, and corn to pop, since these all provide topics of interest which will start the ball of conversation rolling in the group around the blaze.

HOT or cold drinks are seasonable matters, but be sure you have plenty whichever is your choice. Chocolate and coffee, of course, for a cold night, and a big lemonade-tea punch, or a grape juice and ginger ale mixture for a warm evening. Plenty of ice cubes and ginger ale, mineral waters, orange fizz, and fruit mixtures provide the ingredients for a variety of refreshing drinks for either hot or cold weather. To serve these you will need rows and rows of glasses of various sizes, but since excellent models may be bought inexpensively no hostess need skimp herself, or run low on these necessities.

This is the chance to use your informal linens, those hand-woven doilies and runners with naïve

birds and flowers in lively hues cross-stitched on them, and the peasant pottery decorated with brilliant scenes and little people whose gaiety is their best excuse for being. Supper may be served on card tables covered with checked Provincial cloths in red, white, and dark blue, or gorgeous scarlet and yellow, with piles near by of the small fringed doilies which come with them. The dishes may be French Provincial, bold Spanish, or Italian-pottery; the gay candles in candelabra of Oriental brass or silver—and, with care to serve a few unusual dishes, already your party has stepped out of the realm of the commonplace.

If you are having a buffet supper coffee will be dispensed from one end of the dining room table, and chocolate, if you are serving both, from the other. Have plenty of warmed cups, bowls of sugar, bowls of whipped cream, and pitchers of plain cream at hand. And do have (Continued on page 460)

If you are planning a more elaborate party a buffet supper is easier to manage than a seated meal. The table should be set as attractively as possible with all the necessary silver, china, and napkins, and the food appetizingly arranged on platters



HARDWARE *for* Hard Wear

The prices for beauty and durability—Part II

by MORGAN G. FARRELL

*The key to the numbers which
accompany the lock sets will be
found at the end of the article*

IN A previous installment of this article, published in the February issue, the differences in design, material, workmanship, and finish of door and window hardware were analyzed to show why the prices varied so widely. Pressed steel knobs were shown to be cheaper and, of course, less durable than cast bronze knobs; one-tumbler locks, than three-tumbler locks; plain cast hinges than machine finished hinges and so on through the hardware list. We now come to the matter of cost.

To take specific styles of architecture, we have already selected two houses which can be built for \$15,000 each—one in the Colonial, the other in the Tudor style—and will recommend the hardware most appropriate for them.

There are two contrasting styles of Colonial hardware—both authentic. One is urban in its origin and the other undoubtedly rural, though sometimes called Early Colonial. The first is of brass of a light golden color, polished or sanded. The design is graceful and the proportions delicate. The metal is known as Colonial brass and contains a greater percentage of zinc than the more common brasses. Knobs or lever handles, butts, small door knockers, poppy-drops over the keyholes, and French window bolts distinguish this style of hardware.

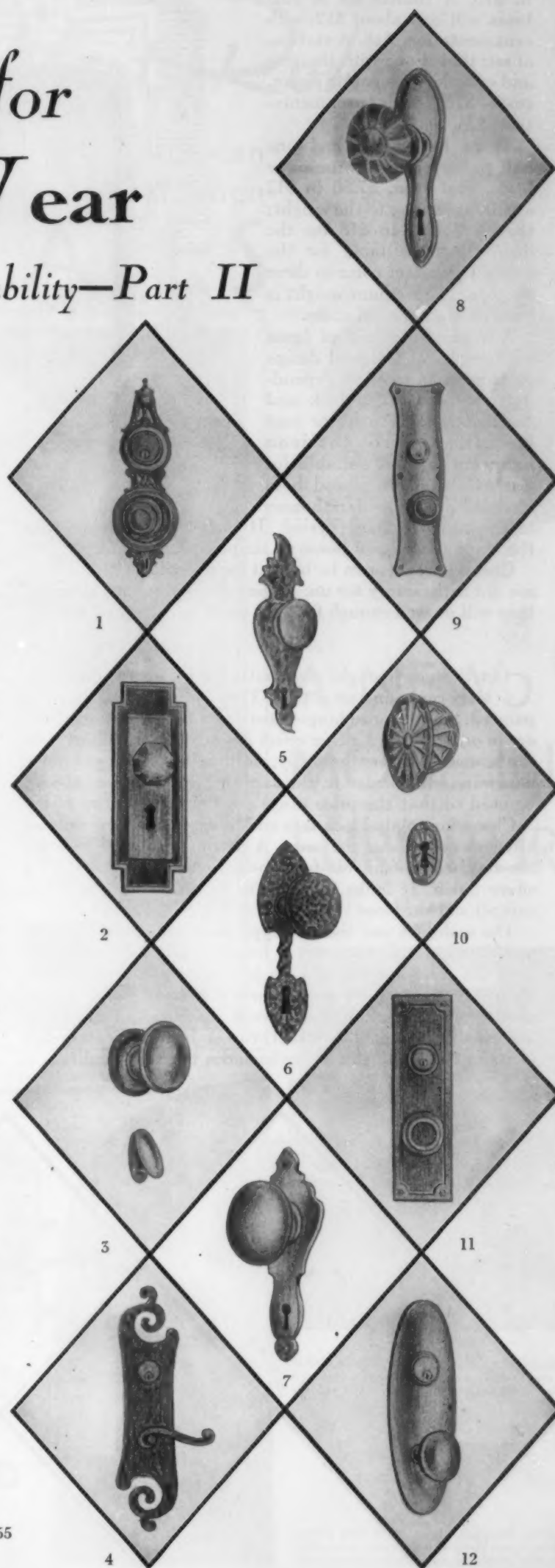
The other is of wrought iron. Its characteristics are: Substantial weight, intentionally crude forging, black finish, strap hinges, locks on the faces of the doors, grips instead of knobs, and thumb or finger latches.

The Tudor hardware is not dissimilar to the Colonial wrought iron in design. Made and forged by hand it, too, is characterized by its strength and seeming crudeness. The surfaces show the hammer marks and the usual finish is a steely gray. Hammered white bronze hardware properly finished is precisely suited to this style.

Of course, the period hardware gives way to the utility type in bathrooms and kitchens where chromium plated hinges, lock sets, drawer pulls, and cupboard latches are more to the purpose.

In the following sections the reader will find some practical suggestions for selecting the hardware for each class of opening in the house together with the price range of substantial sets. Anything which costs less than the lower figure is likely to be unsatisfactory and anything which costs more than the higher, too elaborate for a \$15,000 house. Both Colonial and Tudor styles are included in the range of prices. The latter is somewhat the more expensive.

A lock set with a cylinder lock and a round Colonial knob and rose of polished brass will cost from \$10 to \$20. A good wrought brass set can be obtained for \$10, while ornamenta-



tion will increase its price range to \$15. A similar set in cast brass will cost about \$12; with ornamentation, \$18. A sectional set, that is one with the grip and cylinder in separate pieces, costs \$16; with ornamentation, \$25.

Three butts, one and one half pairs, of cast bronze or brass, cost from \$7.50 to \$12 a pair, according to the weight; that is \$11.25 to \$18 for the door. Butts suitable for the heavy front door come in three weights. The medium weight is good enough in most cases.

A mortise lock set of brass with knobs of Colonial design costs from \$4 to \$7.50 depending on the type of lock and the material, wrought or cast brass. Black, wrought iron hardware is most suitable for Early Colonial houses and those modeled after the farmhouses of the Revolutionary period. It is not in harmony with the average Colonial house of simpler proportions.

Cheap lock sets can be bought for as little as \$1 but they are not satisfactory for use in the principal rooms, although they will do well enough for light doors in cellar and attic.

CAST iron or wrought steel butts for 1½" to 1¾" doors are sixty cents and up a pair. They will serve if they are painted. Solid bronze hinges cost from \$3 to \$4 a pair and are in order where a richer effect is sought or in houses near the seacoast. (Parenthetically, nothing but brass or bronze hardware will survive in the salt air.) Three hinges should be used so that the price range per door is \$4.50 to \$6.00.

Chromium plated lock sets and hinges for bathrooms and kitchens cost about the same. A particularly rich finish for the hardware of an old-fashioned dining room is called a silver finish. It looks like pewter or dull nickel, and has exceptional hardness.

The sash lifts and the cam type fasteners of double hung sash should be of cast brass or bronze finished to harmonize with the room hardware. Cast iron is unsuitable as it will snap. The stop screws and washers may be of brass. All the hardware for a window (exclusive of chain and pulleys which are usually in the mill contract) can be bought for forty-five cents to \$1.25 and this range includes the best quality.



Sketches by Burt Sullivan

Tudor hardware is not unlike the Colonial wrought iron in design. Made and forged by hand it, too, is characterized by its strength and seeming crudeness. The surfaces show the hammer marks and the usual finish effect is steely gray

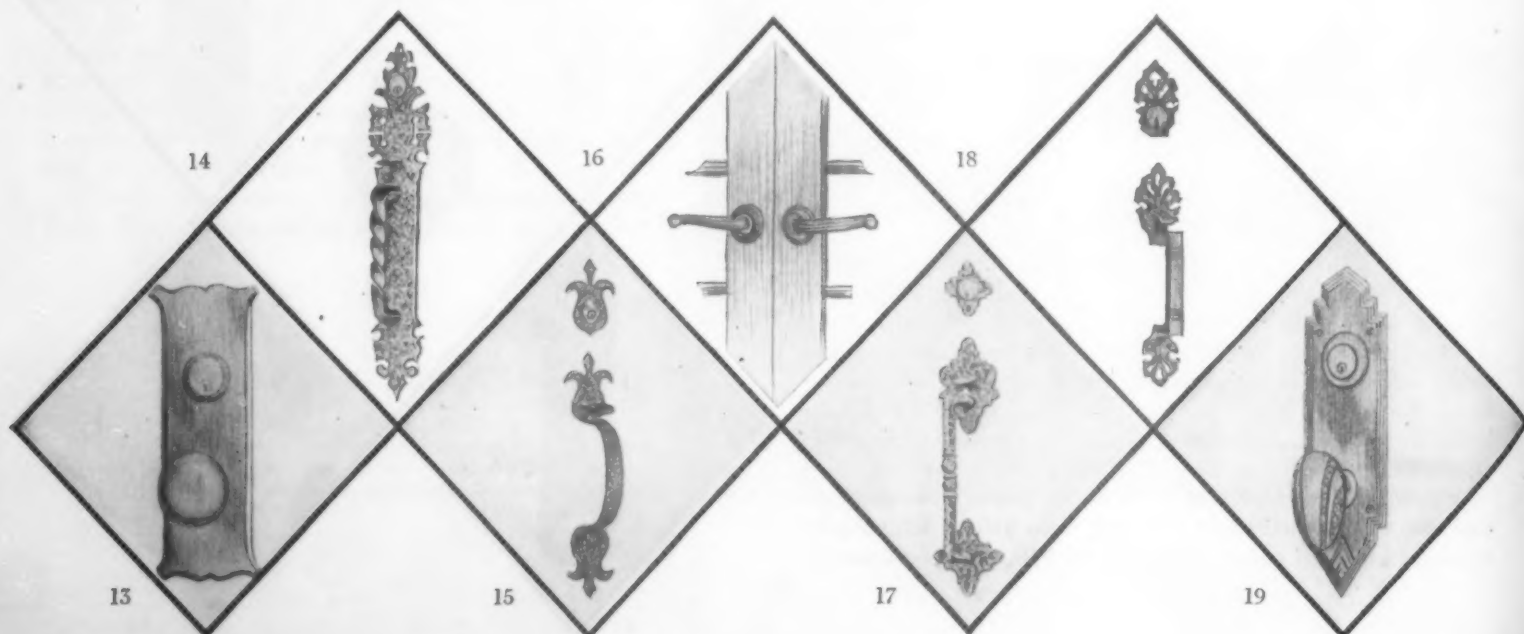
French windows require three pairs of butts, top and bottom bolts and a thumb lock unless used as a main entrance, in which case a full lock is needed. All the hardware costs from \$25 up per window. Cremone bolts and butts cost about the same.

The full hardware equipment for small casement sash costs \$2.25 per sash.

Some of the miscellaneous or special articles of finishing hardware deserve mention, principally because of their utilitarian value. For example, there is the floor spring hinge for the double swinging door leading from the kitchen or pantry to the dining or breakfast room. These hinges come in several forms at varying prices, the cheapest being \$2.50. They are fastened to the bottom of the door with a simpler fitting at the top. The door pivots on both and there are no other hinges. The lower fitting may have either two springs to self-close the door, one, or none. The last is not suitable unless some other means of automatically closing the door is provided.

The finish is not material as the hardware is concealed. The cost is in the order of mention, the two-spring type with a floor box containing the mechanism being the most expensive and by long odds the most satisfactory. It is so designed that when the door is pushed open to an angle of 90° it stays open. It can also be arranged to stay open at an angle of 105°.

As there is a considerable strain on a floor hinge of this type when it supports a fairly heavy door, only the best type is to be considered. There are still some forms on the market, in which the door stop and spring release are operated by pushing a button projecting from the face of the door, with the foot, but the self-acting kind is displacing them. An excellent type of checking (Continued on page 466)



Gilbert Rohde

Distinguished member of the American
Union of Decorative Artists and Craftsmen
CREATES



**A NEW
MODE IN
FURNITURE**



NOT EVEN PARIS has produced anything to compare with this Rohde Contemporary Furniture. It's smart, modern. Yet its dignity, its sound good taste, make it fitting for any type of room. The wood is a warm rich brown. The special upholstery is a harmonious pattern of brown and tan shades. And deep spring-filled cushions make it gorgeously comfortable.

NOTHING in Europe—nothing in America—approaches the new Heywood-Wakefield furniture. That's the verdict of famous designers and prominent decorators.

"Amazingly modern . . . without being extreme," they say. "Striking, unusual . . . with sound good taste in the lines of every piece."

Your own good taste will say it, too, the minute you see these new designs. You'll instantly visualize them in *your* home—bringing character to a difficult corner, lifting a whole room out of the ordinary.

Plan to see them soon . . . sit in them . . . note how cleverly they are shaped . . . so comfortable that you just can't help settling back on the deep cushions.

And exquisitely upholstered, of course, in the very newest fabrics. In fact, each smart pattern was specially chosen for design and color harmony by Isabel M. Croc , well-known expert on upholstery.

All the better stores are showing this new Heywood-Wakefield furniture. Take a minute tomorrow and see it for yourself.

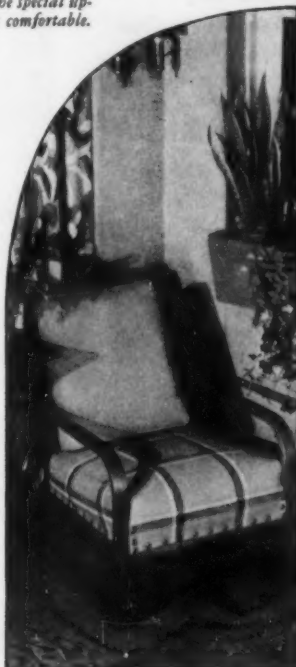
HEYWOOD-WAKEFIELD

EXECUTIVE OFFICES, BOSTON, MASS.

Makers of Fine Furniture



A DELIGHTFULLY PRACTICAL combination. This table may be used for a desk. The cane back of the chair is stained to match the warm brown wood.

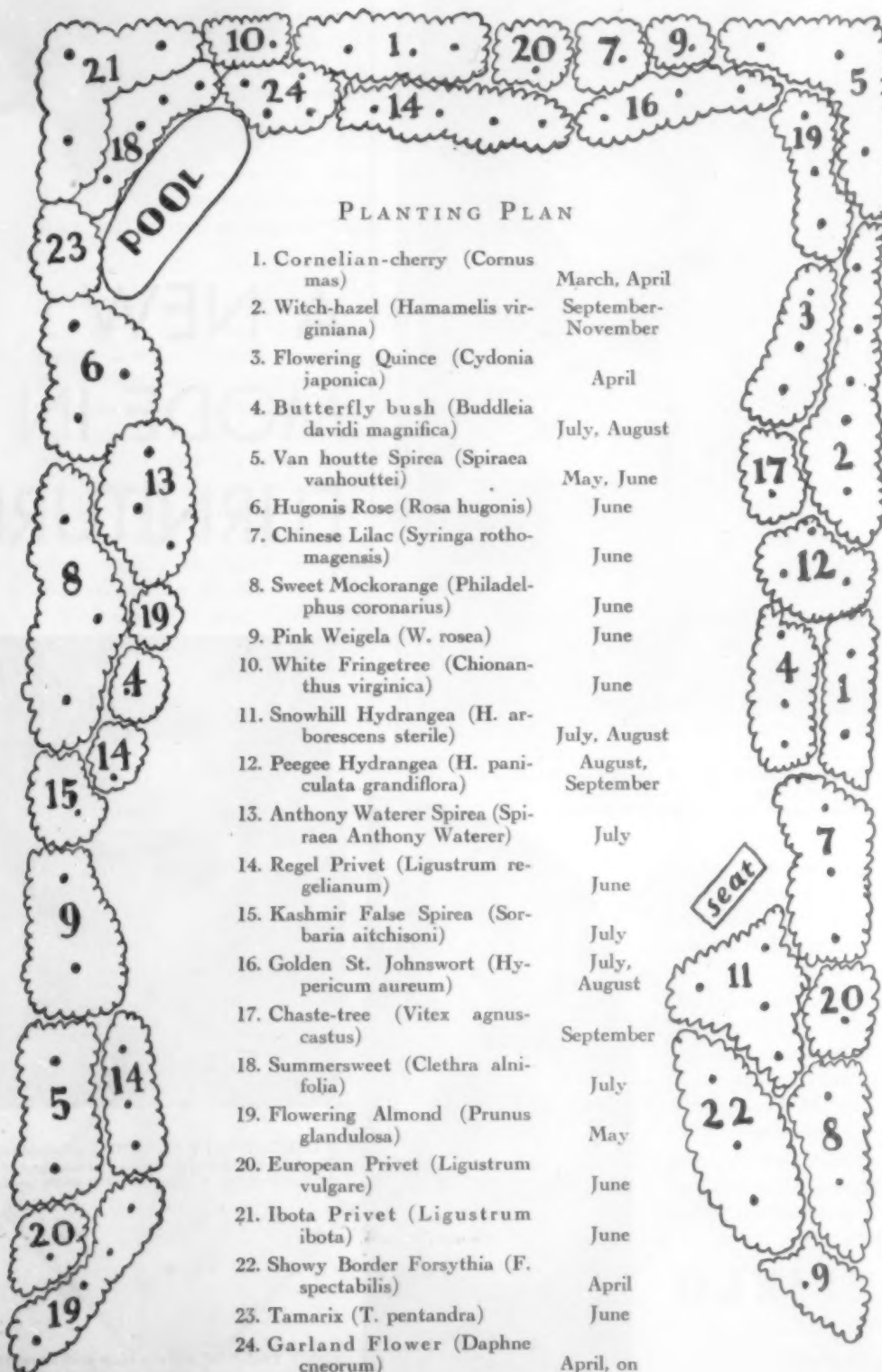


CAN'T YOU JUST SEE this chair with its smart upholstery in a corner of your living-room! Another design offered in Rohde Contemporary Furniture.

CONTINUOUS BLOOM

from a garden of shrubs

by VICTOR H. RIES



THERE is pleasure indeed to be had from our garden on a cold, raw, blustery March day, when standing indoors before the glowing fire we may look out and see the Cornelian-cherry in full bloom, its dainty yellow flowers in clusters all along the twigs. This is but an outpost of a continuous procession of bloom of one shrub or another through the season. Even earlier than the Cornelian-cherry is the Japanese Witch-hazel, which is in full bloom in February and March.

It is odd that although almost everybody thinks of blossoms on annuals, perennials, and herbaceous plants yet seldom do people think of shrubs as being able to furnish them with bloom throughout most of the months of the year. Yet there is such a wealth, such a variety, of flowering shrubs that it is very easy to attain that result.

As the warm sunny days of spring arrive they are greeted by the golden bells of the Forsythia. The Showy Golden-bell (*F. spectabilis*) is the finest of all that group. The shrubs so far mentioned are excellent background subjects because they are tall growing and vigorous.

For the front of the porch or near a large boulder the Thunberg Spirea with its feathery grace and myriads of dainty white flowers is always enjoyed. And then about the same time the glowing red flowers of the Flowering Quince gives us satisfactory warmth to the background planting. For pink which is always welcome in the garden the Flowering Almond, especially if it is grown on its own roots, soon produces a compact clump covered with a profusion of pink rosettes.

May finds us with a wealth of bloom amongst our shrubs. In our little rock garden the earliest of the shrubs to bloom would be the garland flower (*Daphne cneorum*), its fragrance spreading throughout that entire section of the yard. The evergreen foliage, the dainty compact pink clusters of flowers, so prim and so precise and always welcome. And during May comes the greatest show of blooming shrubs in this country, the Vanhoutte Spirea. Its graceful, pendulous branches, its snowy white blossoms, its spreading grace make it one of the most desirable of background or screen shrubs. And in front of them to add fragrance to our garden will be that aristocrat among shrubs of fragrance *Viburnum carlesi*, a very recent arrival from Asia.

Since yellow flowers are always brightly cheerful the Hugonis Rose with its dainty foliage furnishes an interesting spot of color. Nor should we overlook some of the Lilacs, the so-called French, the Chinese, and the Persian. All equally desirable but with different habits of growth. Lorain, Ohio has recently adopted the Lilac as a community shrub and the people of that community planted over 5,000 Lilac bushes this past year.

The Mockoranges are a fine group of shrubs, most of them noted for their fragrance and all for their pearly white bloom. Some are single flowered, some are double flowered, some are dwarf, and some are tall; so we have but to choose a variety to fit a particular spot we (Continued on page 470)

"... Now let me tell you about *my* building operation"—Women who live in Celotex-insulated homes are the very best salesmen we have. We cheerfully credit thousands of sales to tea-table conferences like this one.



Why houses that men build today succeed as homes for women

A LOT of the credit belongs to wives, as every woman knows. For they learn and remember a great many facts that husbands have learned and forgotten.

Take insulation, for instance. Your husband knows he wants an insulated house. The architect and the contractor wouldn't build any other kind nowadays.

Probably he's ready to agree that Celotex "is the best all-round

insulation in the world"—for any one of several thousand building authorities might have told him so.

Nevertheless, it's you we are counting on to see that your new home is actually insulated with Celotex.

You know too well the weakness of the old story—"something just as good." And we're sure you'll remember such sound and practical buying points as these:

Celotex does the main job to perfection—shuts out winter cold and summer heat—makes it easy to keep comfortable with much less fuel, no matter what the weather is doing.

Celotex is permanent—can never settle or sag—provides just as effective insulation after ten years as it does the first week.

Celotex takes the place of other building materials, so that you secure insulation at a very slight additional cost.

Celotex reinforces walls and roofs—is neither too rigid nor too flexible to provide the utmost structural strength.

Celotex has a toughness that gets it into the house in first class condition.

This could go on indefinitely. We'll finish by saying that this all-round excellence of Celotex has caused it to be chosen and used in over 325,000 homes and by more than 25 makers of refrigerators.

The rest of the facts and figures are waiting for you—in the capable hands of your own lumber dealer.

Get in touch with him, now. He'll give you your copy of our new booklet "Celotex Cane Fibre Insulation."

If you buy your new home, remember to look for the Celotex Sign—your assurance of greater home comfort.

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For plastered walls and ceilings, there is Celotex Lath—the insulating plaster base, designed with beveled, overlapping joints that reinforce against plaster cracks and eliminate lath marks.





Smokeless, double-heating HEATILATOR FIREPLACES cost only \$15-\$25 extra!

The sketch above, by J. Floyd Yewell, is one of a series in which famous architects are showing fireplaces that have the double charm of external beauty and internal utility—gained at very little extra cost by the use of a Heatilator Fireplace Unit. Grilles in the side of the mantel are for cold air intake and warm air outlet.

Mr. Yewell says:

"It happens that the house I have designed this fireplace for will be chiefly used in summertime, when the boiler in the basement will not be running. The finished fireplace will be just like my sketch, except that the outlet grilles for warm air will be located in bedrooms on the second floor. The extra heat that comes from the Heatilator will be especially welcome there.

"I think the Heatilator should be used wherever fireplaces are built. It assures smokeless operation and a great deal of extra heat that is ordinarily wasted. It adds very little to the actual cost because it includes parts that are needed for ordinary construction. Anyway, as the fireplace is the center of home life, enough money should go into the building of it to have it really fine."



The Heatilator is a metal form around which the fireplace masonry is built. It is a complete unit up to the flue—made in a wide range of sizes. Smokeless operation is guaranteed. The double-walled chamber which surrounds the fire takes the heat ordinarily wasted up the chimney and sends it back into the room. Arrows show openings for cold and warm air respectively which are connected with intake and outlet grilles placed to conform with any fireplace design.

When you buy, build or rent, be sure of having a Heatilator fireplace. Mail coupon for complete information.

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Heatilator

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Please send me particulars without charge or obligation. We plan to build.....remodel.....which?

Your name.....

Address.....

Architect's or builder's name.....

Address.....

That midnight supper

Continued from page 454

plenty of cream. Both the coffee and the chocolate will be made in large pots in the kitchen and brought in hot as the table receptacles are emptied.

The dishes which you may provide are so varied that a choice is hard, but your menu depends upon the type of meal you wish to serve. If it is truly informal like a studio party, and everyone is to help himself, one hot dish like scalloped oysters, or a rich spaghetti concoction, with plenty of sandwiches and a big bowl of salad will take care of the main courses. There should always be cheese in some form; it belongs to the midnight hour. Club sandwiches are acceptable for the late supper, and are easily made on the marvelous new sandwich toasters. Waffles with bacon are a specialty of some hospitable houses, and a waffle and coffee party is easily carried out, and always agreeable.

Sandwiches for the late snack must be piquant and out of the ordinary. For anchovy sandwiches cut bread into thin slices, and spread sparingly and evenly with creamed butter into which anchovy paste has been mixed. The maker can best decide the proportions to be used since anchovy varies somewhat in strength. The paste may be bought in tubes or larger amounts in jars; both are always fresh and delicious. If preferred, the paste may be mixed with the mashed yolks of hard boiled eggs which have been rubbed into a little creamed butter.

Eggs are a light and popular midnight meal, and late supper menus usually include some form of eggs, this being true the later the hour until when the hands of the clock are almost at dawn scrambled eggs with tiny sausages are a tempting thought. Egg mixtures or a Welsh rarebit are stand-bys for midnight meals, and, if you have an electric chafing dish, simplify your hospitality immensely. A supper which is most informal, but sure to be relished may be cooked quickly with the use of a sandwich toaster and a chafing dish from which toasted sandwiches and Welsh rarebit may be served piping hot.

Canapés are delicious for late suppers, but imply someone willing to work in the kitchen as they should, above all things, be crisp and hot when served. Cheese dreams cut out with a heart-shaped cookie cutter are the pièce de résistance of one hostess who is famous for her unusual dishes. These are made by spreading creamed American cheese to which a touch of paprika and cayenne have been added on heart-shaped slices of bread, and baking them very quickly in a hot oven.

For serving canapés of caviare, delicate, crisp imported pastry shapes may be bought in tins in the shops, with sunken centers which hold just the proper amount of caviare, and which save much time in preparation.

For a simple supper which may all be prepared beforehand, and easily served without a maid, we suggest:

Tomato or clam-juice cocktails, and if the ready-made preparations are used do pep them up a bit with Worcestershire, salt, etc. A real cook will keep on tasting the cocktail mixture and adding seasonings until it is just piquant enough. Saltines may be passed with these, and mammoth, black, ripe olives.

Scalloped oysters, with sandwiches of thin brown bread, and white bread sandwiches filled with an olive and pickle mixture.

If preferred, a chicken and oyster salad may be served, dressed with a delicate mayonnaise, and accompanied by hot, buttered Parker House rolls and hearts of celery, chilled. The stalks may be filled with Roquefort cheese, if you like.

Ices, or vanilla ice cream with a mint, a marron, or a butterscotch sauce may be served for dessert, although a rich dessert is not needed if many dishes have been served first. Some hostesses feel that a party is not a party without ice cream, so you must use your individual preference in making up your menu. Tiny sponge cakes, cut into hearts, rounds, etc., and having a light sifting of confectioner's sugar on them are appetizing with the ice. There may be salted nuts, and chocolate or cream peppermints on the table, and hot coffee and chocolate served all through the meal as often as any guest wishes.

If you are planning a more elaborate party, and there are maids to cook and serve it, you will pass canapés in the living room, and then group your guests around the candle-lit table in the dining room. The menu may consist of hot, broiled baby lobsters, or a great platter of cold meats, with turkey, game, liverwurst, etc., with a border of little slices of pâté de foie gras around them. Be sure to provide mustard and horse-radish if you have cold beef or ham in the menu. A big bowl of potato salad may accompany the meat, also hot, crisp Vienna rolls with fresh butter. If you prefer a hot dish to the salad, or beside it, a big brown baking dish, with a folded napkin around it, may hold steaming spaghetti made by your best Italian recipe. Grated Parmesan cheese should be passed with this. If this is one of the chief dishes it may be followed by a delicate salad of hearts of lettuce or of blanched romaine, with grapefruit quarters, dressed with a mild French dressing with a good deal of paprika in it. Toasted Swedish crackers may be served hot with this.

For dessert there may be little molds of raspberry ice in conventional shapes, surrounded with spun sugar, or a pineapple ice with a pale mint sauce. The molds should be small to be tempting. Tiny angel cakes may be passed with the ices, and some of the new peppermint creams which take the shape of flowers and tiny fruits, and are naturally colored in the palest pastel shades. As the guests stroll into the living room a maid will pass small cups of black coffee, sugar, cigarettes, and a bowl of small pieces of candied ginger.

We wish to acknowledge the courtesy and cooperation of the following firms in loaning us the table appointments shown in the photographs on pages 453 and 454.

Photograph on page 453: Linen, Irish & Scottish Linen Damask Guild; silver-plate, 1847 Rogers Bros.; sandwich toaster and waffle iron, Lewis & Conger.

Upper photograph on page 454: Pear-ant linen, Mitteldorfer Straus.

Buffet supper table on page 454: Silver, Reed & Barton.

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Concrete-paved Ivanhoe Street, Oakland, California. Hussey & Belcher, Engineers; Fredrickson & Watson, Contractors.

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Cabot's DOUBLE-WHITE, Old Virginia White, and Green Glass Collophanes on all exterior woodwork. Insulated with Cabot's Quilt in walls and roof.

FOR year round comfort this beautiful new home has been insulated throughout with Cabot's Quilt. A Quilt-Insulated house is always warm in winter and cool in summer. This is because of the high insulating power of Quilt, (the highest of any commercial home insulation material by U. S. Bureau of Standards tests.)

And Cabot's Quilt is unusually economical. Its low first cost is often saved by reductions in size of heating plant and radiators, and each year it will show notable savings in fuel bills. Moreover, Quilt is rot-proof, vermin-proof, and fire-resistant, and it will never pack down or otherwise lose its insulating power.

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Inc.

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Gentlemen: Please send me your new Quilt Book, "Build Warm Houses."

Name

Address

AH-3-31

Safety from cellar to attic

Continued from page 440

cables of generous capacity, well insulated, and plenty of outlets, so placed as to obviate the necessity for long extension cords. Inadequate wiring is a well-recognized fire hazard but it is, quite aside from this, the cause of other unpleasant or even disastrous experiences. Long extension cords are to be avoided when possible, not only because of their awkward appearance but because they wear out quite easily and thus become danger spots. But, where we must use them, the following suggestions from Morton G. Lloyd, Chief of the Section of Safety Standards of the United States Bureau of Standards, will help us to keep out of the accident roster. The suggestions apply equally well to the cords which come as part of portable appliances:

Never use a cord whose insulation is frayed or badly worn.

Use sockets and plugs of non-conducting material such as hard rubber, porcelain, and the like, at either end of the cord, in preference to those of metal.

Use cords with waterproof coverings in laundry, bath, or garage.

If an extension cord must be used on the floor under a rug, or where it will be subjected to hard usage, use one of the reinforced sort which is made for this purpose.

Never use a portable electric appliance in the bath, nor in a wet laundry, unless it has been grounded to the cold-water pipe.

The reason behind each rule is the same. When the protective coating around a wire, becomes worn, permitting it to touch the metal frame work of washing machine, heater, vibrator, curling iron, or other piece of apparatus, the piece immediately becomes "live" and will transmit a shock to anyone unfortunate enough to touch it. In other words, one's body becomes a link in the electric circuit if one touches an object live with current and then completes the circuit by touching another object which is "grounded."

In the case of damaged bathroom and laundry apparatus the shock is likely to be serious, for water pipes conduct electricity, and dampness reduces the resistance of the human skin to the current. The use of portable electric heaters to warm bath water, or even to heat the bathroom, Dr. Lloyd terms "simply foolhardy."

The first thing to do, when the odor of gas is noticed, is to search for the leak. If it is evident that the leakage is so small as not to permeate the room, no other precaution need be taken than to use soap temporarily to stop the leak and to notify the gas company so that a permanent repair may be made.

If the odor of gas seems to permeate the room, suggesting a leak of serious nature, no time should be lost in extinguishing all lights and fires and in airing the room.

Never search for a gas leak with a match, candle, or lantern. Even the switch operating an electric light may cause a sufficient spark to cause an explosion, for unexpected pockets of explosive mixtures may exist beneath stairways, between joists etc.

Never try to locate the point of leakage by holding a lighted match under a suspected pipe joint for

even if there is not enough gas to make an explosion, the match may ignite a flame so small and pale as to escape the householder's notice, but which will, after a minute or two, melt the soft metal of a meter connection or soldered seam thus aggravating the condition and creating a greater danger of fire or explosion.

The Bureau of Standards also issues a warning concerning the use of lacquers and quick-drying paints. Most of us, by this time, know that they are most inflammable and that their fumes are explosive and so we are careful not to use them near open flames, but we still persist in working with them in closed rooms even though we know that the fumes are quite as unwelcome to the human system as are the fumes of illuminating gas. Do your lacquering out of doors, if possible, or else work with the windows and doors flung wide.

The same rules hold true of cleaning fluids with pungent fumes. In this connection a word regarding some of the new non-explosive cleaning fluids may not be amiss. Some, now on the market, consist of naphtha or gasoline, with enough carbon tetrachloride added to make them safe. Such mixtures are inflammable, but not explosive when fresh, but gradually become more explosive upon standing, since the carbon tetrachloride evaporates faster than the gasoline and thus leaves a final residue of gasoline. Such fluids should be used and stored outside of the house, whenever possible.

Increasingly, of late, we read of "garage asphyxiation," that is, of people who are found dead in the garage beside their running motors. Carbon monoxide, the gas discharged by automobile engines, is extremely poisonous and, being tasteless and odorless, gets in its deadly work without giving the victim any warning. It was good news to read in the papers a few months ago that a carburetor attachment had been invented which would eliminate carbon monoxide. We hope this attachment will soon become standard equipment. The present day car owner, however, is urged not to run his engine without first opening the garage door. Small repairs or adjustments of generator, spark plugs, and so on need to be made while the engine is running, but the repairman should first open the door or windows to assure adequate ventilation, before starting work.

Accidental poisoning takes its greatest toll among children, whose youthful curiosity is a constant urge to touch, smell, and taste mysterious looking substances. Thus, a high built-in closet or a cabinet which may be locked for the safeguarding of paints, varnish removers, plant spray, and the like is a desirable feature of the dwelling which is to house a family with children. The bathroom medicine cabinet should also be planned so as to be "youngster-proof." Some cabinets now come with a compartment which may be locked, for the storage of all the powerful medicines and disinfectants which the family may feel it necessary to possess. Or one may purchase in most drug stores a small first-aid kit fitted with lock and key.

This leak might have been IN A WALL...



THEN the trouble *would* have been serious. Walls torn open; floors ripped up to get at the rusted pipe; then a sizeable bill; perhaps at a most inconvenient time. And there is always the possibility that the same thing may occur again.

It is easy to avoid the annoyance and expense of rust-clogged pipes and rust leaks. Have your plumbing contractor install Anaconda Brass Pipe... it *cannot* rust. While it costs a little more than rustable pipe (about \$75 in the average eight-room house) it is far cheaper in the end. For your protection and identification the name Anaconda is stamped in the pipe every foot.

Ask your architect or plumbing contractor about Anaconda Brass Pipe. *They* know that its durability makes its use a real economy.

Just as Anaconda Brass Pipe saves money, so does the use of Anaconda Copper for sheet metal work, and a Copper or Everdur hot water tank. Valuable information on the advantages of these and other uses of Anaconda metals is given in the illustrated booklet, "Copper, Brass and Bronze in the Home." Write for your free copy to The American Brass Company, General Offices: Waterbury, Connecticut.



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NOT FREAKISHLY MODERN, but modern in utility, convenience and home beautifying effects you never dreamt were possible. Think of a screen that:

Rolls up automatically, at the touch of the thumb, as easily as a window shade . . . is there when you want it; out of the way when you don't.

Is lovely in appearance . . . obviates the unsightliness and light obstruction inevitable with wide-framed flat-type screens.

Need not be taken out for access to flower boxes or for window washing. Requires no storing; no troublesome matching and putting up in spring; no irksome taking down in fall; no annual messy dusting, painting and repairing.

Does not collect dirt—to be beaten against panes by rain or to soil delicate breeze-blown drapes—but cleans itself each time it is rolled.

Does not rust or break into holes; does not sag or bag, even from accidental blows.

Is thoroughly insect-tight—with its mesh fastened in securely at top and

bottom, and snugly locked into close-fitting guides at the sides.

Is made of special electro-plated "AluminA" wire-cloth, with reinforced selvage, that will far outlive its TEN-YEAR GUARANTEE and make it the most economical and permanent screen you can buy.

Rolscreens give you all these amazing advantages—with any size or type of window—in new home or old. But be sure they're Pella-made. Only in these genuine trade-marked "Rolscreens" can you benefit from the fifteen patented features which make them far superior to all other rolling screens. Use the coupon below. It will bring you complete information—and show how easy it is for you to have Rolscreens installed quickly, without inconvenience and without the slightest jeopardy to your window construction.

Special information, specifications and services to architects and builders on installations in new dwellings, hospitals, hotels, office and apartment buildings.



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OF PELLA, IOWA

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Please send illustrated booklet showing how Rolscreens can add beauty, convenience and utility to my home.

Name _____

Street _____ City and State _____

New rooms for old

Continued from page 444

decorators, amateur and professional. Parts of the decorative scheme may be worked out in your own home and the manner in which the decorators attacked their problems will doubtless suggest ways in which other decorating problems may be happily solved. On receipt of two 2-cent stamps we shall gladly mail you a list of the furniture and materials suggested by either decorator with the prices as quoted in New York. For three 2-cent stamps we shall send both lists.

We are showing you the mechanics of Aladdin's lamp. On page 444 is illustrated the Kansas house as it was when the decorators were called in to advise. On the five following pages are photographs of the rooms as they would appear if the decorators' suggestions were actually carried out. In this article we describe the decorators' designs.

In order to illustrate explicitly the metamorphosis of these rooms we had models made of the decorators' suggestions by Edward M. Ellis, whose skillful work has been a feature of the recent issues of THE AMERICAN HOME. Mr. Ellis executed, at the scale of one inch to the foot, exact models of the rooms as they were designed by the decorators. The furniture which is shown in these rooms is modeled on actual pieces on sale in leading furniture stores. The wallpaper is delicately painted by hand, in the proper scale, from a pattern readily obtainable.

By using models we gain a mobility that actual rooms, even if it had been possible to set them up, could never give. We are able to take down whole walls, and to remove ceilings to show just how the whole room looks.

Let us consider Miss Lonsdale's scheme first. Her changes were of rearrangement and refurnishing only. Miss Lonsdale felt that many home makers would be interested in seeing what they could do with a new color scheme and new furniture without going to the expense of making structural changes. The furniture used is all Early American in type, the pieces being either pine or maple reproductions of authentic early models. The soft tones of the wood harmonize delightfully with the yellow background, and the cheerful color is further emphasized by the curtains of clear yellow organdie which is sunfast and has a permanent finish.

In the pictures of the original rooms we see French doors opening into the hall and the music room, but Miss Lonsdale felt that this made the room too open. The doors were therefore closed, and a three-fold screen placed before them. The screen has a maple finish, and is decorated with old prints. With the screen in position the stair hall is reached through the door in the vestibule and the music room.

A three-cushion overstuffed sofa, and a comfortable barrel chair were placed in the room, both being covered with suede cloth, one in soft green, the other in beige. This fabric is lovely in texture and wears indefinitely. A fine wing chair is also here, covered with sunfast Croydon cloth in narrow stripes of brown and taupe. A brown pottery lamp with a shade in amber tones stands on the table, to accent the soft browns and yellows.

In the small vestibule the walls and woodwork match that of the other rooms, and the floor is stained the same maple shade as the others. A gay "Welcome" hooked mat lies before the door, and against the wall is a narrow drop-leaf table with a Colonial mirror hanging over it.

The second decorator, Miss Ethel Reeve, made radical changes in the interior as she was anxious to incorporate a fireplace in the room. Besides removing the partition to make this possible other structural changes were made. The window nearest the fireplace in the group of three in the dining room was closed, since the space was needed for symmetry. The French doors were removed, the opening reduced, and a single, eight-paned door substituted. One of the pair of doors leading into the kitchen was taken out, the one nearest the outside wall being left, and some molding was added to that to give it an English character. The entrance to the living room from the vestibule is now through the music room which gives more wall space in the main room, as well as permitting more privacy.

These completed the architectural changes in the room. The interior now presents the picture of one large, finely proportioned room, with rough plaster walls, a Jacobean fireplace which may be equipped with either a gas or an electric log, and agreeably grouped windows. As the furniture was installed, a charming living room-dining room in the English style developed.

For breakfast and informal meals the small, drop-leaf table in oak which is under the group of windows to the left of the fireplace is used, and the Tudor oak side chairs which stand about the room may be drawn to either table when a meal is to be served. These chairs have carved splats, and on each oaken seat is a green velvet pad, embellished with gorgeous orange braid embroidered in bright blue-green. The beautifully turned legs and stretchers which are typical of the English furniture of the seventeenth century are features of these chairs.

The drapery linen is printed in blue, black, yellow, green, and flame color, and the valances are finished with a 1½ inch wool-blocked fringe in brilliant tones. There are glass curtains at all the windows of square meshed pale yellow voile which harmonizes with the long draperies. Two chairs are covered with the same fabric as the curtains, one the overstuffed chair toward the middle of the room in the fireplace group, the other the Jacobean armchair near the front window whose seat and back are upholstered in the linen.

There are various small oak incidental tables placed to good advantage in the room—a small, hexagonal, drop-leaf model back of the davenport holds a table lamp, one at the end for ash-trays, etc., and another tiny hexagonal one which stands conveniently between the two fireside chairs. A tall candlestand lamp with parchment shade also stands here, and in the front window group is another unusual lamp with a (Continued on page 466)



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DARCY . . . an exclusive **RUSSWIN** creation . . . owes its inspiration to the French Renaissance, noted for its graceful employment of the delicate arabesque, the pierced shield and cartouche. It is especially appropriate for public buildings or homes where the architecture is classical in design. Made of brass or bronze base metals, like all **RUSSWIN** Hardware, it assures a life-time of unfailing, trouble-free service under the most rigorous usage. Your architect or contractor knows **RUSSWIN** quality. Write to us for descriptive booklet showing exclusive **RUSSWIN** Hardware for leading periods of design.

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This remarkable process removes the objectionable features of ordinary wax and makes a super-fine wax compound that is creamy-smooth, supple and unusually durable. It is neither heavy, slow-drying nor sticky.

When you use this new wax compound you'll discover, first of all, that in a very few minutes it gives the floor a soft, lustrous

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Then, as time goes on, your admiration will increase as you watch the rich, velvety surface resist heel-marks, scratches and wear much longer than you ever expected.

Now, with less work, keep your floors gleaming... whether varnished, shel-laced, painted, waxed or covered with linoleum... and furniture gleaming just like new... Use this new process wax.



Attention: There is only one wax prepared by the Koric Process, and that is *Old English*. Made by The A. S. Boyle Co., Cincinnati, O.; Windsor, Ont.

THE ONLY WAX MADE BY THE KORIC PROCESS

Old English Wax

PASTE and LIQUID

Hardware for hard wear

Continued from page 456

floor hinge, one that will allow the door to close slowly, costs \$10. Push plates of glass are seventy-five cents a pair, up.

Another hardware specialty which has been considerably refined by the designers is the bathroom lock. This resembles an ordinary door lock and is priced the same. Privacy calls for some sort of thumb-latch on the inside. But it is quite possible that a small child may lock himself in or that something else might happen to make it necessary to open the door from the outside. Therefore, a simple form of key is supplied which will throw the thumb-latch from the outside. The key is hung or placed somewhere on the door trim out of a child's reach. In other types a penknife or screwdriver will open the door. The locks cost from \$4.50 to \$7.50.

Door chains have replaced the old-fashioned bolts on the front doors of suburban dwellings, because they permit conversation with strangers, through a guarded door. They should be substantial and correspond, in finish, with the rest of the door hardware. A good chain costs, when part of the hardware list, about \$1.00.

Cupboard catches come in cast or wrought iron, brass or bronze, plated or polished. Their cost is about in that order from low to higher, but is negligible, even for the best. The main point is to get one with a long latch, for cupboard doors have a way of shrinking in the heat of the kitchen, so much so that the latch will not engage solidly and the warping of the door will cause it to spring open. Hardware for a pair of dresser doors, costs from seventy-five cents to \$2.00.

Screen door catches come in a greater variety of weights, sizes, and mechanisms than would be expected. Much screen door hardware is trash. The spring closing arrangement slams the door to, with a nerve racking crash and an Aeolian harp accompaniment by the netting. The tiny lever knobs account for a respectable percentage of skinned knuckles.

The cause of all this discomfort is that the screen door hardware is included with the screens and not with the finishing hardware, where it belongs. A good lock set and a real door check are eminently desirable and cost altogether about \$6.50 to \$10.00.

Coat and hat hooks are also a part of the finishing hardware, usually a neglected one. Since their cost matters little, why not get substantial ones with a broad, flat top so the hook will not pierce through or permanently bag articles of wearing apparel which have no hanger tape, as sweaters? The best hooks cost no more than twenty-five cents.

Lastly we come to the hardware of garage doors. This is really a subject in itself, but a few general points may be noted to advantage, especially when the garage is built in the house.

Garage door hardware must be, above all, substantial. Flimsy locks, hinges, and floor bolts are worse than useless. The doors are usually so heavy that anything but stout strap hinges will allow them to sag. When they do, the best lock cannot engage, nor can the head and sill bolts.

Strap hinges for the garage may be 30" long for those at the top and bottom and 20" for those in the middle. With a stout cylinder lock and a bolt which engages at the top and bottom of the door at the same time, the total outlay will be about \$35. All leading manufacturers have especially designed hardware for the garage and it is wise to accept their recommendations.

For an average seven-room house, then, with two baths, a basement, and a garage, a satisfactory and substantial equipment of hardware can be bought for \$250 in the Colonial style and \$300 in the Tudor style. Figures obtained from several manufacturers show considerable variation, probably because of different ideas of what is "satisfactory." One says 1½ per cent of the contract cost of the house, in this case \$225. Another estimate was \$350 for Colonial and \$500 for Tudor style. The writer's experience is that the figures given, namely: \$250 and \$300 for the respective styles represent safe averages.

KEY TO LOCK SETS SHOWN ON PAGES 455 AND 456

1, Schlage Lock Co.; 2, 9, 11, Russell & Erwin Mfg. Co.; 5, Penn Hardware Co.; 6, 8, 12, 17, 19, Sargent & Co.; 4, 13, 16, 18, P. & F. Corbin; 3, 7, 10, The Yale & Towne Mfg. Co.; 14, 15, Mc Kinney Mfg. Co.

New rooms for old

Continued from page 464

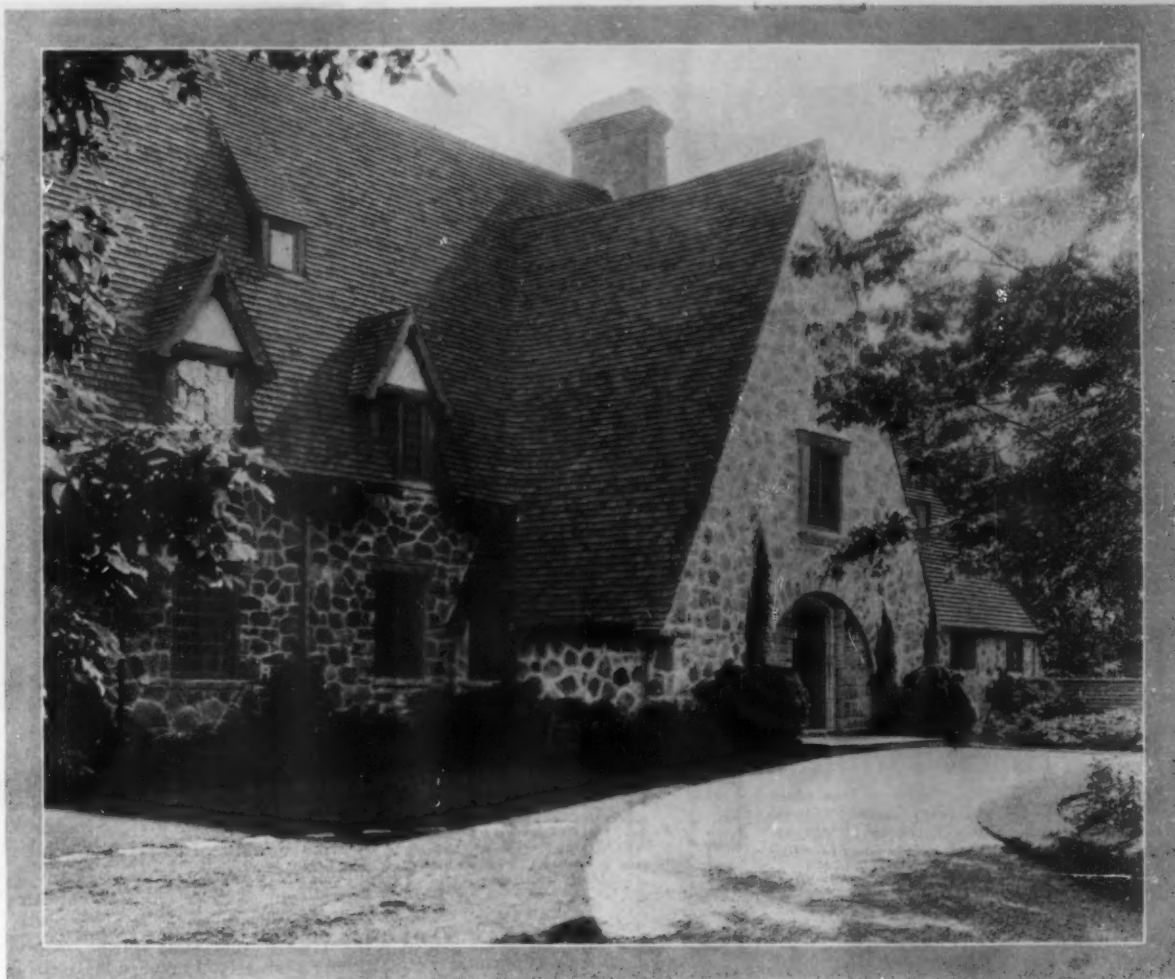
twisted base and a shelf-like top which supports an electric candle lamp with a simple fabric shade. The wall sconce lighting fixtures are of Dutch brass made in a design with bold projections, and on the mantel is a pair of 17th-century brass candlesticks.

The reading lamp on the table back of the davenport has a base of mottled, green pottery, and a shade of natural colored parchment bound in green and gold. A pair of Holbein portraits hang, simply framed, on either side of the front window.

With these pictures and data to go by home owners who wish to may plan changes in their own homes, and make layouts and schemes for them

with much profit and interest. They may make, or have made, scale drawings, with flat ground floor models of the furniture they wish to use cut also to scale, and with these work out arrangements for proposed rooms, or for those already built, with ease and accuracy. By placing the small, scaled furniture models on the plans you may easily know exactly how your wall space and furnishings will combine which will save an infinite amount of time and trouble when you are ready to carry out the actual plan. Few of us could emulate Mr. Ellis's unique miniature homes, but from them we can get ideas which we may adapt to our own simple developments.

Country Life's model home,
equipped with Byers Genuine
Wrought-Iron Pipe.



A

H O M E

is no sounder than the pipe in it!

EXPERIENCE has taught leading architects and builders the importance of "pipe prescription" in designing and building a home. One part of your pipe system improperly "prescribed" can be disastrous in property loss and discomfort. It is important for you to select an architect and a builder who know the benefits of service and economy in specifying the right kind of pipe for each specific problem. There is always a definite reason why they specify and install wrought-iron pipe.

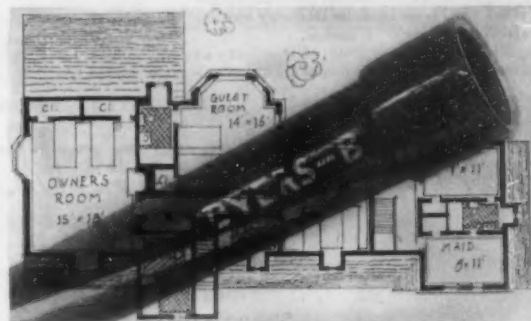
In those places where the unequalled service of wrought-iron pipe is established through actual service, substitution of either cheaper or more

expensive materials is not true economy. Where wrought-iron is specified, Byers is a standard of quality.

Remember this when you plan and build a home: When specified by building specialists for definite purposes, wrought-iron pipe fills every need for service and durability — and present and future economy!

If you have a pipe problem, the facilities of our organization are at your disposal. Write us and send us the name of your architect and builder. We accept as a business responsibility preservation of the traditional superiority of Byers Genuine Wrought-Iron Pipe in its proved fields

of service. Our counsel considers primarily your piping needs and our own product is recommended only for its rightful place in a "pipe prescription." The Spiral Stripe is your assurance of the genuine. A. M. Byers Company, Pittsburgh, Pa. Established 1864.



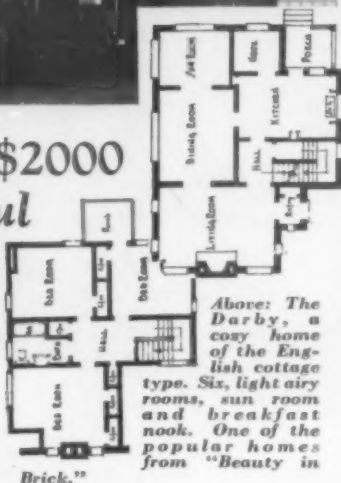
BYERS GENUINE WROUGHT-IRON PIPE

AN INVESTMENT—NOT AN OUTLAY



Save \$1000 to \$2000 on this beautiful Forestblend Brick Home

"BUILDING your home now is just plain common sense . . . and economy" states one prominent building authority. "Materials are the lowest in years, labor is plentiful



Left: *The Carlisle*, a charming home of brick and half timber. Unfinished second floor, gives added space when desired. Comfortable and convenient. Plan selected from "Beauty in Brick."

Below: *The Brothers*, a cottage of unusual distinction. Seven rooms. Large, high living room. First floor toilet. Cabled entrance. Shown in detail in "Beauty in Brick."

and cheap. First class construction is possible at savings of 10% to 20%, even more in some localities."

Like the beautiful homes pictured here, you also can include the permanent, colorful beauty of Forestblend Brick. You can enjoy the freedom from upkeep and repair expense that these famous brick insure. Their widely varied colors reflect every shade and tint of the autumn forest. Their unique texture lends distinction to any home. Hard fired, their permanence presents the ideal resistance to time, weather and depreciation. Thousands of owners acclaim their satisfaction with homes of Forestblend Brick. And you, too, will find in it every quality desired for your own home.

These are but three of the forty attractive brick homes illustrated in our new



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The strip of land alongside the driveway to the garage is made into a water garden and rockery combination

The witchery of a water garden

Continued from page 452

used, both tender and hardy. Night blooming varieties are desirable where the pool is close to the living quarters of the house and may be enjoyed in the evening by one's guests. One of these may be included with day bloomers for the balance. A wide variety of colors is available including white, yellow, rose, blue, lavender, red. The tropical varieties have larger blooms but, properly planted in rich soil, all kinds will flower profusely. For very large pools and ponds the Lotus and the giant Victoria may be used.

In addition to Waterlilies there are numerous aquatic plants both for planting in the pool and around it. Some of the plants are oxygenating, growing entirely submerged, their function to manufacture oxygen that the water may remain fresh and to support the fish therein. Few pools are supplied by running water, in fact most pools are better without a change of water provided there is growing vegetation in them. Waterlilies do better in warm water and if properly planted the pool will never become stagnant. Among the margin plants which revel in wet muck soils there are several kinds of Iris, the gorgeous Cardinalflower (*Lobelia cardinalis*), Marshmarigold (*Caltha palustris*), Forget-me-not (*Myosotis scorpioides*), Umbrella-sedge (*Cyperus alternifolius*), and many others.

Some who are not familiar with pools hesitate to own one for fear it will breed mosquitoes. If a few gold fish are placed in the pool not only will they devour any insect larvae but their lively darting here and there adds life and interest to it.

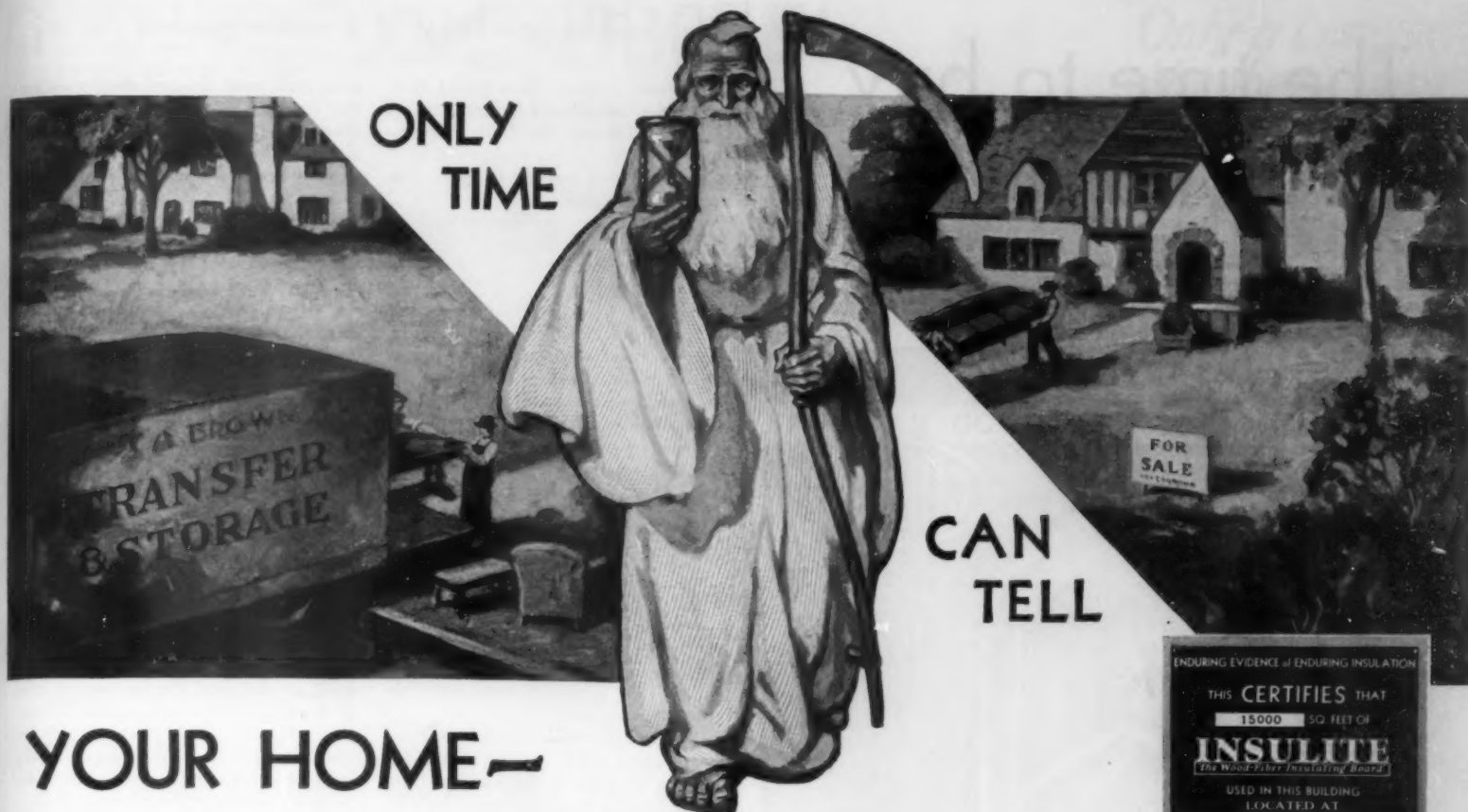
The construction of a lily pool is comparatively simple. Concrete is the best material to use but there are several details that must not be neglected. Not only must the pool be sufficiently strong to withstand the enormous weight of water but it must have strength that the frosts and freezing of winter will not crack it. A leaky pool can almost never be repaired so it is important to build right at the start. Don't skimp upon the thickness of the concrete slab and don't try to economize by using less cement. The slab should be four or five inches thick and reinforced through the middle with strong wire fencing or triangular mesh reinforcing

ing; or regular reinforcing steel bars could also be used but would doubtless cost more.

The usual procedure in building a pool is to carefully stake out the location and dig the hole. By studying the cross section sketch on page 451 you can see how to lay it out. The hole must be nearly a foot deeper and larger in every direction than the inside of the pool will be. This allows for the six-inch layer of cinders for foundation and drainage and the four- or five-inch slab of concrete. The inside of the hole should be tamped solid, then the layer of cinders put in and they should be tamped very solid to provide a good foundation.

Mixing concrete is very simple, all measurements are by bulk and, for a pool as described, what is known as a 1-3-5 mix is all right. This is one part Portland cement, three parts sharp clean sand, and five parts crushed rock or gravel about half-inch size. To these should be added enough water to make the entire mixture about as wet as thick mud but not so wet that it will run. It is absolutely vital that the batch, as it is called, be mixed thoroughly. Every particle of gravel or stone must be covered by the cement and sand and all must be thoroughly moistened.

With the pool excavation ready, the cinders all tamped solid and the first lot of the concrete ready, proceed to apply a two-inch layer over the entire pool. Tamp this lightly to eliminate any air pockets. With the first layer in, cut and fit your reinforcing. Do this carefully, lapping and wiring it at joints. Then apply the other two- or three-inch layer and tamp this lightly to make a good contact with the first layer and the reinforcing material. If possible, the entire concrete job should be done in one day as the two layers will hold to each other much better than if they are allowed to stand any length of time in between. Ordinary concrete mixture not being waterproof, it is best to give the inside of the pool a coat of asphalt paint or it may be given two or three coats of pure cement and water, put on with a paint brush at about the consistency of paint. Do this as soon as the concrete is in place before it sets fully. Allow an hour between coats. Then let the (Continued on page 470)



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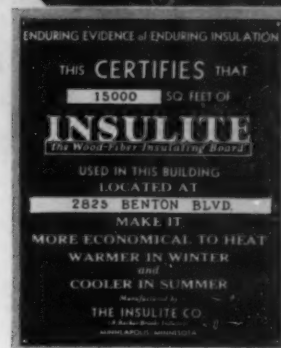
ness . . . resisting the passage of heat and absorbing noise. That's real efficiency!

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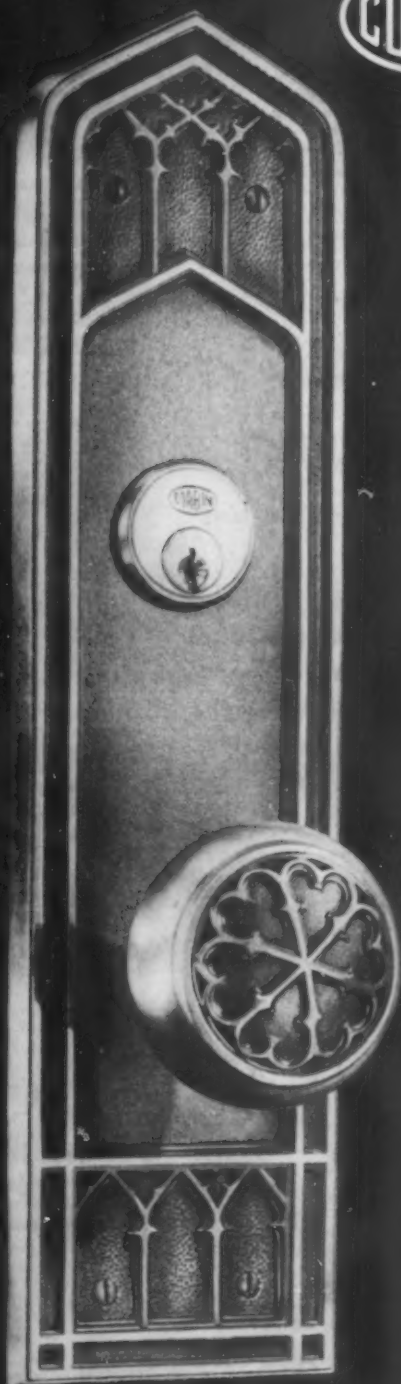
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The witchery of a water garden

Continued from page 468

pool stand two or three weeks that it will be fully cured before putting in water. During this time keep the surface moist by covering with burlap or hay and wetting daily to prevent surface cracks.

The cost of a pool will vary with its size and the locality. Sand, gravel, and cement are comparatively cheap just now and to build an eight by ten pool, the materials should not cost more than \$20.00. By all means make your pool as large as your space and funds available will warrant.

In my own pool and in the sketch shown here no provision is made for draining though it would be very simple to connect it with the sewer. A pool may be easily filled with the garden hose and generally as easily siphoned out by the same method. Except for draining in the fall it is seldom necessary to remove the water. Fish, snails, oxygenating plants, and other vegetation will keep the water clear but, of course, the cement will soon become covered with a scum or slime. This is not objectionable because it is natural.

In sections where ice forms but a few inches, thick hardy Waterlilies may be left right in the pool but tropical or tender varieties must be wintered indoors. These tender varieties are not easy to winter unless one has a greenhouse as they need to be kept growing, so it is probably best to treat them as annuals and buy new

ones each year. In cold sections even the hardy kinds must be taken indoors but they live over very well, simply placed in a cool cellar and kept slightly moist. Do not permit them to freeze and in the spring about a month before planting time, bring them into the light in the warm part of the cellar, give a little more water and they will start growth and may then be divided ready for planting. The hardy varieties multiply quite fast and unless divided and the soil enriched annually the blooms will become smaller. The soil should be equal parts of rich garden loam, compost, and thoroughly rotted barnyard manure. Never use fresh manure as it will cause the water to develop a green scum and might even injure the Waterlilies.

With a pool built as described and in shape according to the sketch, water may be left in all winter no matter how deep the ice may freeze. A pool built with perpendicular sides is more easily disrupted by freezing but when built as sketched the ice cannot grip it sufficiently to exert any pressure.

As to what varieties you should plant in your pool it is easy to make selections from dealers' lists according to your personal color preferences—remembering always the distinctions between night and day bloomers, tropical and hardy. My selection would but reflect my fancies, so get a specialist's list and—please yourself.

Continuous bloom from a garden of shrubs

Continued from page 458

have. They grow in the sun or they grow in the shade.

June always has a multitude of blooming shrubs but outstanding among them all is the Weigela. Picture a round symmetrical mass 6 or 7 feet in height and as much in diameter covered with quantities of large bell-shaped flowers that may be white, pink, or red. An excellent screen, a wonderful mass of color, ideal as a cut flower; it prefers sun.

The various forms of the Privets, although we forget to think of them as blooming shrubs after seeing them clipped so frequently as hedges, are really quite effective when in bloom.

And even more glorious than the Privet in bloom because of its feathery white flowers is the White Fringe. Although of slow growth this native shrub of the South will more than repay you for the extra time you wait for it to reach maturity. And as a companion to the grace of the White Fringe we may use the Tamarix. It has a delightful rampant habit of growth with blue-green ethereal foliage and airy pink flower plumes.

Showiest of all July blooming shrubs is the Snowhill Hydrangea which if you will recall will give you the best results if it is cut to the ground each spring to come up anew. And surely there is no one who does not have that little gem the Anthony Waterer Spirea. Its slightly larger sister the Froebel Spirea is equally desirable and has the additional advantage of giving us a beautiful autumn foliage coloration. Related to the Spireas and often catalogued as such is the False Spirea. Usually the most desirable one of these is Sor-

baria aitchisoni with large pale light green foliage and huge terminal cream-colored plumes which wave majestically in the breeze.

Among the relatively few yellow blooming shrubs is St. Johnswort. Although it is at times a little difficult to establish, once started it is most satisfactory.

Nor should we overlook the newer forms of our old stand-by, the Rugosa Rose. The variety Grootendorst produces a profusion of bloom.

With the approach of August there are fewer shrubs from which to select. The Butterfly-bush, Buddleia, will be in its prime. The Sweetpepper, or Summersweet (Clethra) will be a mass of sprays of small white flowers resembling the Lily-of-the-valley. And for hedges, background, or places where we want a more slender growing shrub we may use the Rose of Sharon.

With the coming of autumn the Pegee Hydrangea produces its clusters of flowers, white at first but later turning pink.

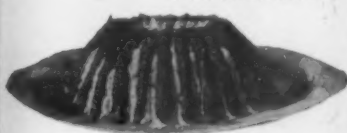
September finds us with but few shrubs in bloom. The outstanding one being the Chaste Tree (Vitex). The spikes of pale blue or white flowers and the rather interesting compound leaves make this especially satisfactory as a specimen plant. Unfortunately in the colder sections of the country it sometimes winter kills. With the last of September through October into November, we find our native Witch-hazel in full bloom and the Abelia with its fragrant blush pink flowers, its shiny evergreen foliage still maintaining its effort to bloom throughout the season.

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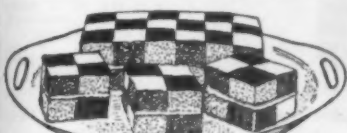
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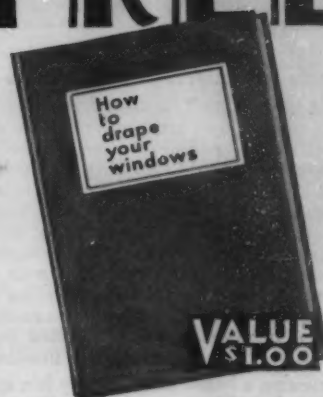
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Closets that come apart

Continued from page 452

In these sectional units you are not limited to drawers of one, or at most two, sizes. There are deep drawers, shallow drawers, drawers which stretch the whole width of the cabinet or only half way across. You may have a shoe box divided into compartments, a hat box with hinged front which opens conveniently downward if it is near the floor and upward if it happens to be placed high so that it is above your head. There is a tray in which each neatly folded pair of stockings has a compartment to itself; another has divisions for gloves and scarfs. Any woman will be delighted with the small jewelry tray, divided into many long, narrow compartments where necklaces and bracelets may lie separately.

In these rather standardized and simplified days a wardrobe is a comparatively constant affair—so many pairs of stockings, so many hats, just the necessary assortment of shoes, and so on. With the system of units it is possible to make a survey of one's clothing and then put together a cabinet which will hold everything that does not need to be kept on hangers, and you are quite likely to be amazed by the small size resulting from this system of careful sorting and compact arrangement. To the left in the photograph on page 452 is seen a cabinet for a complete wardrobe. It consists of top, base, one large outside enclosure and three small ones, and ten drawers and trays of the various types mentioned above. The units are thoroughly inter-

changeable; if you don't care to have the small drawers at the top they change places with the others without protest. Best of all, the complete cabinet costs only \$34.75.

Of course, the idea may be applied to a great many other purposes as well. For example, you may build a linen chest, such as is shown to the right in our photograph, on a base half as wide again as the one for clothing.

Many owners of this new invention, far from hiding it away in closets or under the bed, are quite content to let it take its place in their rooms as an irreproachable piece of modern furniture. There is certainly no reason why it should not be used in this way, for it is made of maple and finished with a clear lacquer which gives a smooth, lustrous surface. The lacquer acts as a filler, and if the natural color and grain of the wood does not harmonize with other furnishings, only a final coat of the desired finish is necessary. The inside is sycamore wood, the construction three ply, reinforced so that there is no danger of springing or warping, and the pieces are made with the greatest exactness to make sure that they fit each other perfectly.

In no room in the house is the question of where to keep things more pressing than in the kitchen, yet very few of us feel that we can afford specially designed drawers and trays to save space. The question of expense should not stand in the way, for, if a small set of the new units is used, the kitchen may be well equipped in this respect.

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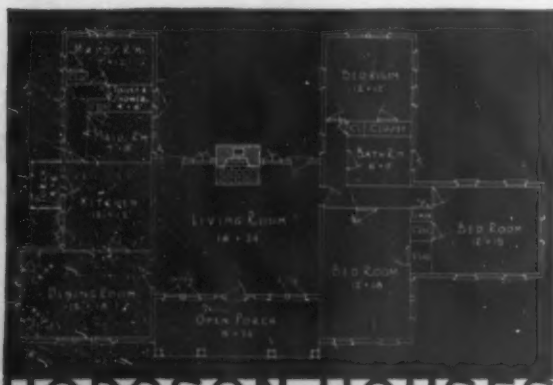
This is a floor-plan, slightly revised, of the Hodgson House shown here. Our book also pictures and prices furnishings and lawn and garden equipment—bird houses, greenhouses, dog kennels, arbors, picket fences, etc.

comes from architectural "fitness" and good taste . . . simplicity of line, and a blending quality in harmony with any background. It is well arranged, spacious, comfortable. *But over and above all that is the quickness and ease with which it is erected.*

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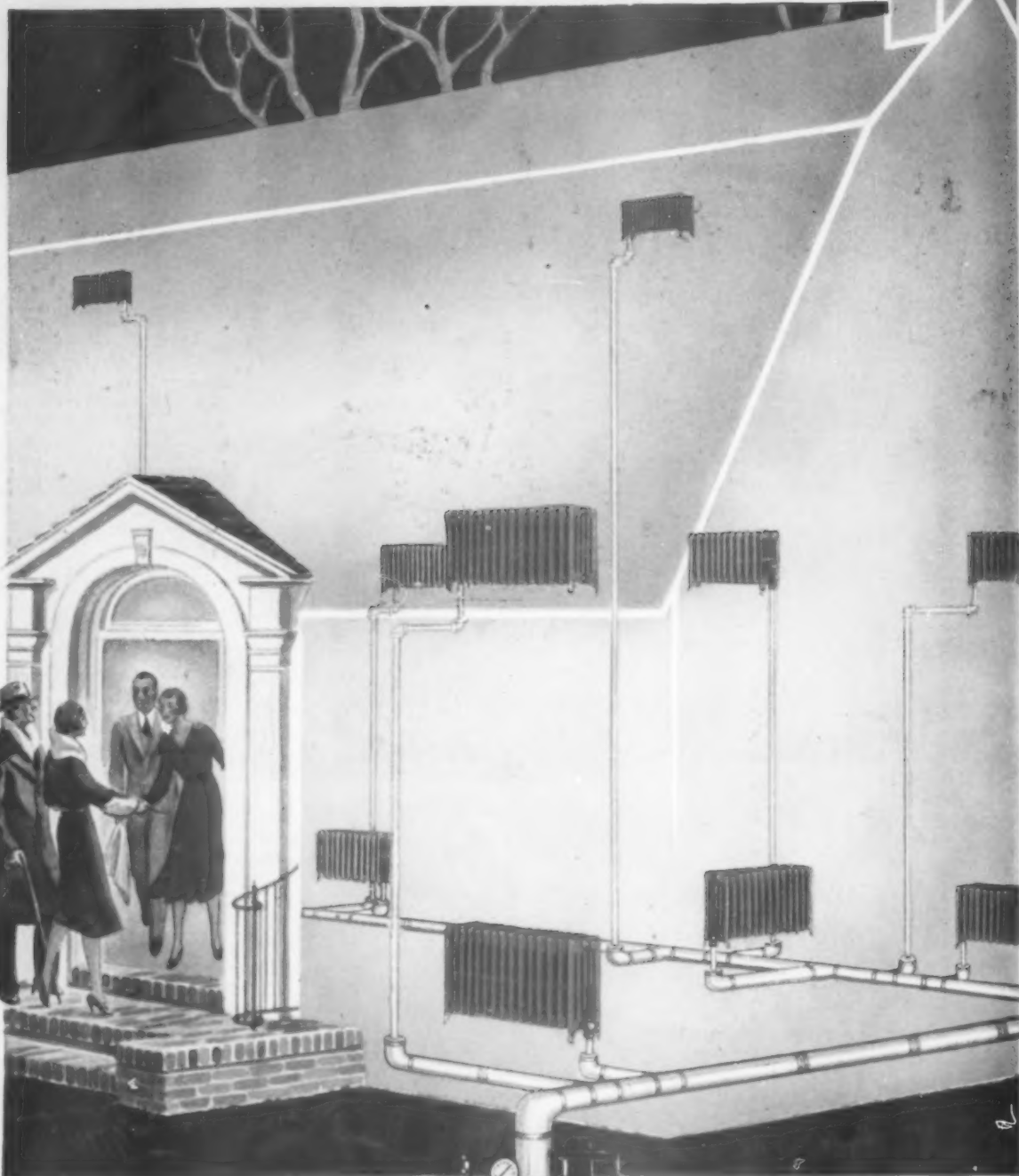
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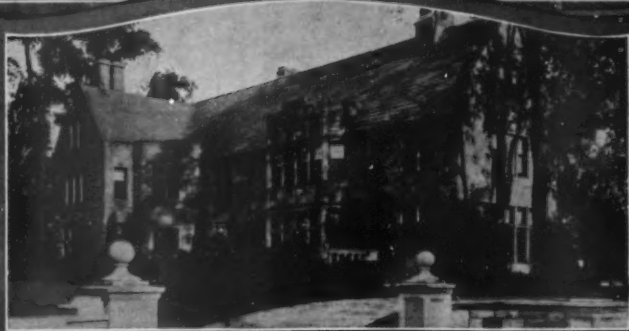


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There is no reason why any home should lack this modern convenience. The cost is probably less than you would expect and you can pay for your comforts as you enjoy them—over a period of 2 years if you like.

PIERCE  **EASTWOOD**
BOILERS AND RADIATORS

INDIVIDUALIZE YOUR HOME AT LOW COST

S. H. Kleinman Residence
Cleveland Heights, OhioH. O. Fullerton
Architectwith *Colorful* Natural Stone

Blending its glorious autumnal hues with the enduring grandeur of virgin stone, Briar Hill *Golden Tone* Wall Facing artistically combines permanence with individuality and charm . . . The beautiful all-stone residence illustrated, is a striking example of the distinctive effects which may be achieved with this matchless building material . . . Just visualize your "dream" home enriched and distinguished with the warm, friendly colors of this natural stone. **Write for our free Ashlar Wall Facing Booklet AM**, showing this sandstone in its own beautiful colors and picturing numerous attractive Briar Hill homes. Blue prints cheerfully estimated without obligation . . . you will be surprised at the moderate cost of this exquisite wall facing.

THE BRIAR HILL STONE COMPANY
Glenmont, Ohio

WRITE FOR THIS FREE BOOKLET

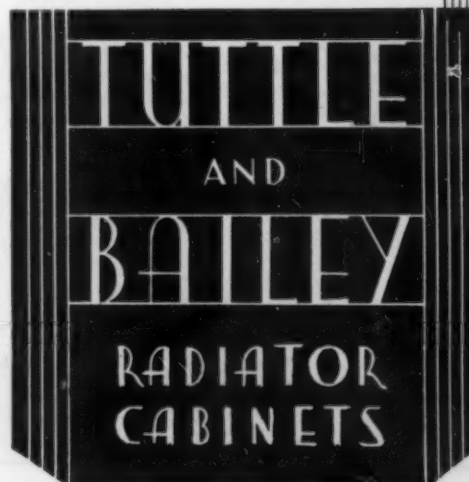
An OUTDOOR EXPERT calls an INDOOR EXPERT for his home



"No one who loves trees as I do can fail to love beauty in every form," says James A. G. Davey, famous tree surgeon. "And no one who knows trees can help knowing how important it is for us, as well as for them, to have the right sort of air to breathe."

Naturally Mr. Davey called in Tuttle & Bailey for the radiator cabinets in his own home. They fit into a room as a tree fits into a landscape. They give maximum heat where it is needed — and the humidifying pan under the cover ensures the moisture so necessary to health.

Six standard models each one finished in delicate flat colors or hand grained to match the finest natural woods — each one custom-built for its own particular place in your home — each one installed under expert supervision.



TUTTLE & BAILEY
MANUFACTURING CO., Inc.
441 Lexington Ave., New York City
(Offices in Boston, Chicago, Kansas City, Los Angeles)

Please send booklet "New Artistry in Radiator Concealment"

Name _____

Address _____

A. H.

This FREE BOOKLET on



— is full of practical ideas and facts about the history of Colonial Furniture and its decorative use in modern homes.

The demand for it has been enormous. Write for Your copy Now.

Genuine
Whitney
Reproductions

Decorators, furniture buyers, authorities on Colonial Furniture and fashionable women everywhere have found this FREE booklet a dependable guide to the correct pieces of Colonial Furniture to buy for any room in the home. Fill in and mail coupon below.

W. F. WHITNEY COMPANY, INC., South Ashburnham, Massachusetts

AM H. 9-91

Gentlemen: Please send my FREE copy of the booklet described above.

Name _____

Address _____ City _____ State _____



Devices for American Homes



A CORDLESS iron stand that makes your old electric iron up to date. No dangling cords to tangle. No electricity to pay for when iron is off stand. The stand is made so that iron slides down making contact with electric terminal automatically, and without effort due to ball bearings on the iron where cord is usually connected. Note the adjuster which is oblong in shape with two terminals. Fits all size irons. Price \$1.75 prepaid. Electric Iron Stand Manufacturing Co., 3404 West 63rd Street, Chicago, Illinois

The seven new devices shown on this page are the results of much thought and work on the part of their manufacturers. We have chosen them liberally from among dozens of others as being especially efficient. This page is devoted to progressive methods which will reduce the long hours spent in housework. Please take advantage of the opportunity offered by this department of keeping up to date. Order by sending your check or money order to the firms mentioned below



YOU can even thread needles in the dark with this clever new invention. The Needle Threader shown above completely threads a needle, thus saving needless eye strain. It has taken the manufacturers two years' work and study to perfect it. The Threader is attached to a container that holds a spool of thread, while there is also a space for the needles, making it a complete sewing outfit. Indispensable for every home. It is nickel plated. Price 50c postpaid. The Needle Threader Co., Thomasville, Georgia



A N ELECTRIC window closer that shuts your window automatically when it snows or rains. Also shuts your window when you push a bedside button. The motor, which is attached to the sill provides the pull down power. Down comes the window when rain hits contact point on outside. Operates on A.C. current only. \$17.50 Lewis & Conger, 78 West 45th Street, N. Y.



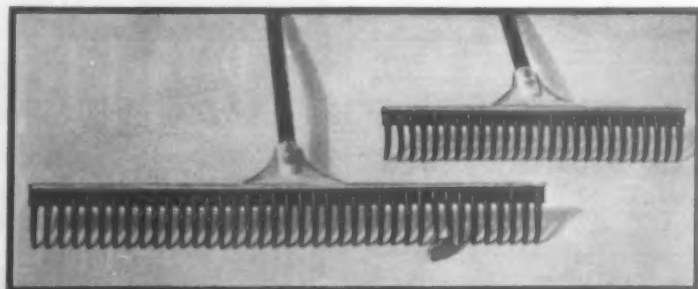
A PERFORATED metal container for cooking rice appetizingly and properly. Also has the advantage that the rice is washed in the container. It can be used for vegetables as well. Invented by a woman of the South where rice is cooked as it should be. Price 50c prepaid—Harlan Rice Cooker, Box 665, Lake Charles, La.



WITH the Cotton Picker you can pluck as much or as little cotton as you need, leaving the rest sanitary. The cotton is coiled into a rope in container, a small amount coming through top. A Bauer & Black product. 25c at your druggist's



THE Marvel Food Warmer is an aluminum gadget 8 inches in diameter. When one dish is ready before another place warmer over unfinished dish and already cooked dish on top. Will keep it hot and moist. Also useful as a vegetable steamer, plate warmer, and separator. \$1.00. Starex Novelty Co. 150 East 53rd Street, N. Y.



A LAWN rake with rubber teeth. An ideal gardening implement as the rubber resists wear, stays elastic, and comes back to form quickly after being distorted. A safety feature is that children falling on the rake will not be injured. Rubber teeth sweep clean and do not tear or uproot the grass

THIS up-to-date lawn rake pictured at left is moderately priced in the 16" size at \$1.00; 20" size at \$1.25; 24" size at \$1.50—all prepaid. Send your order with a check or money order enclosed and the shipment will be made promptly. Sabin Machine Co., 6536 Carnegie Ave., Cleveland, Ohio

The Menace of over-dry indoor air

The heated air in your home is far dryer than that of Sahara Desert. It sucks moisture from our bodies and dries up nose and throat, thus making it easy to catch colds, sore throat and other Winter ills.

It dries, wrinkles, ages complexions. It shrinks doors, warps floors, cracks furniture. It wastes furnace fuel.

To overcome the menace of over-dry indoor air, Science offers Vital-air. A new inexpensive electrical device that revitalizes air by throwing into it the proper degree of moisture.

Just as simple as any other portable electrical device. Plug it into any electrical outlet, fill with water and click the switch. Vital-air quickly raises and maintains the proper degree of moisture in the air.

Learn the startling truth about Winter's worst threat. Send the coupon for your copy of the new booklet, "The Menace of Over-dry Indoor Air". The A. C. Gilbert Co., 221 Erector Square, New Haven, Conn.

Vital-air



Re-vitalizes Indoor Air

-----BOOKLET FREE-----
THE A. C. GILBERT CO.

221 Erector Square, New Haven, Conn.

Send me the FREE booklet, "The Menace of Over-dry Indoor Air," with facts about Vital-air.

Name

Address



EDICRAFT Table Cookery

NEWEST AND SMARTEST OF HOME ARTS...

A delightful union of informality and perfection—that's Table Cookery, done Edicraft fashion. For Edicraft Appliances turn out appetizing breakfasts, lunches, teas, or Sunday night suppers with a graceful charm and a swift efficiency that makes you as proud of what they are as what they do. They do the right thing—automatically. Look at their working parts, see how well they're made! The best stores sell them.



EDICRAFT SPEED TOASTER. For toast—just the way you want it. Toasts two slices on both sides at once. Load it and forget it! The Edicraft opens automatically when the toast is done.



EDICRAFT WAFFLE BAKER makes a steady habit of making perfect waffles. That's because it has an Edison Birka Heat Regulator which holds the temperature automatically at the exact right point. You'll like its new diamond shaped waffles.



EDICRAFT SANDWICH GRILL toasts two big sandwiches into a flavor-blended goodness. And, besides, makes wonderful Toast Melba or French Toast, broils chops, small steaks, or bacon. This, too, maintains a constant temperature automatically.

EDICRAFT

Edicraft Products are designed and built in The Laboratories of Thomas A. Edison.

Coupon

THOMAS A. EDISON, Inc., Valley Road, Orange, N. J.

Please send me "Table Cookery".

Name

Address

Deep Well—Shallow Well—Any Capacity—Any Power



MYERS makes the Water System to fit YOUR needs!

ONE coat cannot fit all men. One water system cannot meet all conditions. But whatever your needs, you may be sure that MYERS makes the units which exactly fit them. As world's largest manufacturers in our line—Pump Builders Since 1870—we have studied the needs of water users for 60 years. MYERS Water Systems bear the one priceless feature of absolute reliability.

MYERS Self-Oiling Water Systems

For deep or shallow wells—for operation by hand, windmill, pump jack, engine or motor—MYERS Water Systems give complete satisfaction. They are simple, durable and remarkably economical in operation.

The nearest MYERS Dealer will be glad to furnish full information. Write today for interesting booklet.

THE F. E. MYERS & BRO. CO.
101 Orange Street Ashland, Ohio
Pumps, Water Systems, Hay Tools, Door Hangers

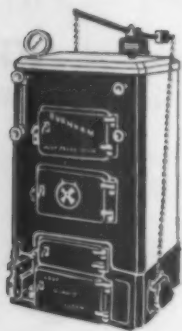
Fig. 2510

An Automatic Electric Shallow Well System

The illustration shows a complete Water System unit for wells up to 22 feet in depth. This MYERS system is equipped with pressure tank and electric motor, all ready to install. Entirely automatic in action—no attention necessary. Self-starting, self-stopping, self-oiling. Capacity 250 gallons per hour.



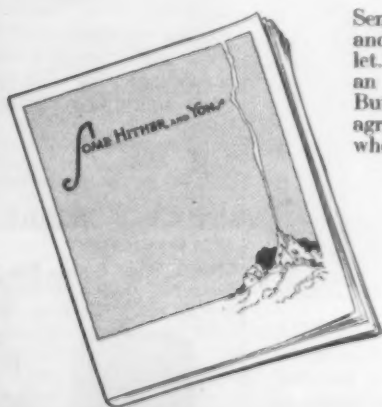
(R 25) **Take Off Your Hat To The MYERS**
PUMPS - WATER SYSTEMS - HAY TOOLS - DOOR HANGERS



How Benjamin Franklin Can Help You Make Heat Savings

YOU recall it was Benjamin Franklin who made the first stove. He made it to prevent so much heat from going up-chimney. For exactly the same reason Burnham Boilers are made the way they are made. Admittedly, the usual talk about this or that fuel saving point, of that or this boiler, is as boring as it may be difficult to understand. So let's not talk about them.

However, there's just one thing that will be of help. It's that a *long fire travel makes a short fuel bill*. Which undebatable statement, brings us to Hither and Yon. An informing booklet. One filled with just the understandable heat saving facts you want to know, to save heat, whether its' with coal or oil. Besides such, there are ample help hints on various phases such as radiators, making one boiler do two's job. Even to why a chimney should be so high, and a coal bin made a certain way.



Send for Hither and Yon Booklet. Admittedly an odd name. But you will agree it's right when you get it.

Burnham Boiler Corporation

IRVINGTON, NEW YORK

Representatives in principal cities of United States and Canada

HELPFUL BOOKLETS

ARE YOU faced with some problem in constructing, remodeling, furnishing, or equipping your home? There are many helpful ideas and suggestions contained in the literature of reputable manufacturers.

Read the advertisements in this issue carefully and request literature direct from the advertiser wherever possible. Then, if you do not find what you are looking for, scan this list.

The American Home acts as a clearing house between reader and manufacturer. You can order the booklets you wish on the coupon at the bottom of page 480. We will forward your name and address to the manufacturers involved, and they will send their literature direct to you.

—HEARTHSTONE EDITOR

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Johns-Manville Co. 678	
CROMAR OAK FLOORS	
The Cromar Co. 682	

(Continued on page 480)

NU-TONE Marquissette

... Ask

... and you will receive ...

a generous sample of this Nu-Tone French Marquissette. No. M176.



It is cobweb sheer, lustrous as sunshine on dancing waters ... hangs in even, graceful folds ... and launders like a linen handkerchief.

You'll like it for your own rooms, for it is a lovely neutral tone that will harmonize with any furnishings. You can take the sample and then match it in your local stores in the curtain styles and lengths you want. Just send your name and address, and we'll send you the sample by return mail.

MARTIN MANUFACTURING CO.
Established 1897
Boston, Mass. West Newton P. O.
Makers of
the famous Echo Bridge Curtains

"No library complete without Kipling complete"



COLONIAL SILHOUETTES

Beautiful black ebony finish, with gold oval liner

Size 4 x 5" Prepaid in U. S. A. \$3.00 per pair

ALMARIAN STUDIOS
602 PRINCE STREET, S. E., GRAND RAPIDS, MICHIGAN



Build Your Own Home



MODERN HOMES at Wholesale Prices!

Choose from 100 prize designs—or let our Home Planners design a modern home from your ideas in wood, brick or stucco. We furnish materials of highest quality—direct from Mills-to-you. No extras! Material Plan-Cut (machine-sawed at mill) saves 1/3 labor cost—18% material waste. Makes tighter, warmer, sturdier home.

Get modern features: Warm Quilt insulation (saves 1/2 fuel bills); Hardwood Floors; Built-in Kitchen Cases, Linen Closets, Ironing Boards, Clothes Chutes, Fireplaces, Phone Nooks, etc.; Colorful Kitchens. More comfort—less housework.

With Plan-Cut Materials, Easy-to-Follow plans, Complete Instructions, you can build your own home and save \$500 to \$1000. Satisfaction Guaranteed or Money Back. Before you rent, buy or build—

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Gordon-VanTine

World's Largest Specialists in Home Building Since 1865
1537 Case St., Davenport, Iowa

Name.....
Address.....

SHE WAS ALMOST JEALOUS OF HER COOK



Mrs. William Newbold, prominent society matron of Philadelphia, selected Ambler Asbestos Waltile for many of the rooms in her beautiful country home. Here is her letter written to us:—

"Now that my curtains are up and we feel really settled, I want to tell you how pleased I am with your Waltile. I frankly had no idea that such beautiful effects could be had with such an economical material. The maids are as proud of their dining room as though it was their own home and I actually think that Waltile is going to help solve the 'servant problem' because everyone likes to work in cheerful, spotless surroundings. My cook loves her new kitchen with green and buff Waltile. I would have been jealous if I didn't have my own bathroom upstairs with its charming pink and blue Waltile. I don't understand how you can sell such a quality material for such reasonable prices. I suppose the answer is that you sell so much of it."

Ambler Waltile comes in rigid, fireproof sheets ... its surface is as hard as marble—easy to clean, many delightful colors, and it lasts a lifetime—never staining or fading.

Let this useful little messenger bring you our interesting color folder. Clip and mail it now!

DECORATIVE
Ambler
ASBESTOS
WALTILE

Ambler Asbestos Shingle
& Sheathing Co.
Ambler, Penna. St. Louis, Mo.

Ambler Asbestos Shingle
& Sheathing Company,
Ambler, Penna.

Please send me, without obligation, your free booklet showing suggestions in color for Waltile in bathrooms, kitchens, dinettes, sunrooms, children's playrooms, attics, basements, garages, etc.

Name.....

Street Address.....

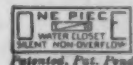
City..... State.....

The famous Ambler Asbestos Shingles are the choice of discriminating builders and architects. Beautiful, wearproof, fireproof. Free color booklet. Our Marbleite has the beauty of marble without the expense.

A.W.-3-31

OLD TOILET OUT OF DATE? install a modern T/N

WHY tolerate the shabby, bad looks of an old-fashioned water closet? The T/N is surprisingly inexpensive. Streamlined, one-piece design does away with ugly wall-tank. The T/N fits with ease under stairs, in corners, under windows. Patented "whirlpool" flushing action is so quiet it can scarcely be heard through a closed door. Highest grade vitreous china. In color, if you wish. See the modern T/N at your plumber's and bring your bathroom up to date.



ONE-PIECE WATER CLOSET

W. A. CASE & SON MANUFACTURING COMPANY
Dept. 213, 220 Delaware Avenue, Buffalo, N. Y.
Founded 1853

Please send me free descriptive literature on the T/N One-Piece Water Closet. I am interested in ☐ REMODELING ☐ NEW HOME.

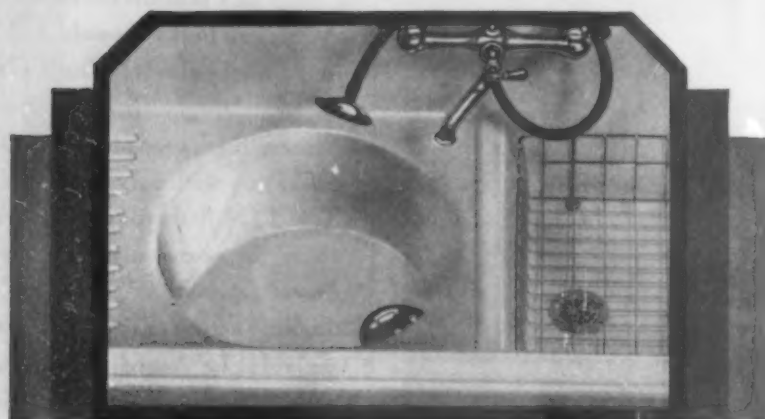
Name.....

Address.....

Plumber's Name.....



WHEN YOUR SINK IS AN EBCO



EBCO DISHWASHING SINK

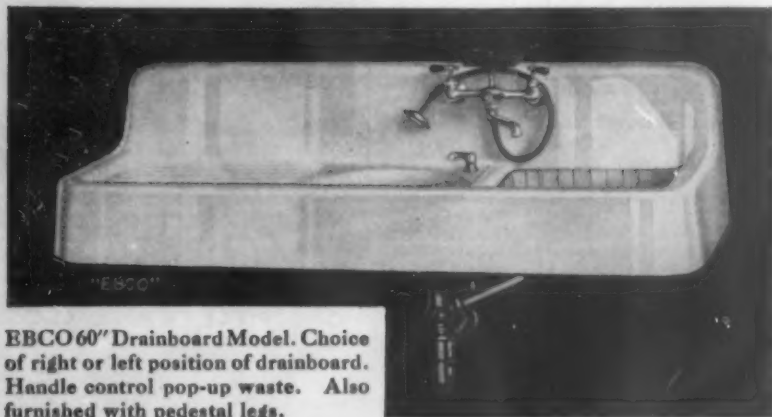
with Permanent Built-in Dishpan

Modernize your kitchen—have your plumber install an EBCO this spring. No awkward dishpan to scour and store. No more dishwiping. The EBCO takes all the bug-bear out of washing dishes. . . . (It is very attractive—can be had in white or beautiful colors—finished in vitreous enamel or acid resisting enamel. . . . (The built-in dishpan is roomy, smooth and round—15½ inches in diameter by 8 inches deep. The waste outlet has a removable strainer—no danger of clogging pipes. The drying compartment has separate waste outlet and special wire drain basket. . . . (The EBCO two-compartment, dishwashing sink offers the greatest convenience at a cost not in excess of any first quality kitchen sink. Write for descriptive folder showing sizes and styles for all kitchens—please mention your plumber's name.

It's DIFFERENT!



"You, too, will smile when you wash dishes the EBCO way."



EBCO 60" Drainboard Model. Choice of right or left position of drainboard. Handle control pop-up waste. Also furnished with pedestal legs.

THE D. A. EBINGER SANITARY MFG. CO.

409 West Town Street



Columbus, Ohio, U. S. A.

HELPFUL BOOKLETS

Continued from page 478

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PEWTER THROUGH THE CENTURIES	
International Silver Co.	649
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The Clock Mfrs. Ass'n. of America	573
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Be sure that you have first looked through the advertising pages and requested booklets direct from the advertiser wherever possible.

—HEARTHSTONE EDITOR

HEARTHSTONE EDITOR, THE AMERICAN HOME, GARDEN CITY, N. Y.

1. I am planning to.....

2. Please send (at no expense to me) the following booklets.
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MODERN STERLING HOME only **797**
Prices Never Lower

GET BOOK OF Model Plans
Insulated • Weather Stripped • Glass Knob Doors • Medicine Cabinet • Ironing Board, etc.
Never before such values. Shown above is a typical example. We ship the lumber cut to you, freight paid to your station. You can build the home yourself, and save money, from plans we furnish. Material highest quality. No extras! Cut at mill saves one-third labor cost, makes tighter, warmer, sturdier home. Customers claim savings from \$300, to \$2000, over local estimates. New Modern Features include Johns-Manville Insulation. Bronze Weather-stripping. 1 panel inside doors with glass knobs. Medicine Cabinet. Built-in Ironing Board, etc. Large discount for cash. Terms if you wish. Send for Beautiful Color Book of new Sterling homes, and learn how little buys a home this modern way.

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WHEREVER discerning home planners seek the utmost in comfort, convenience and beauty, Higgin Rolling Screens are chosen.

Handsome yet unobtrusive . . . as easily manipulated as are window shades . . . providing maximum window area for light and ventilation . . . they give increasing satisfaction throughout years of service. There is a difference in screen construction and screening service. Higgin Endurated all-metal Screens of any type—rolling, sliding or swinging—represent supreme screen quality.

How you can best screen any opening is told in the Higgin Screen Book, incorporating our 37 years' national experience in this work. Write for your copy—no obligation is involved.

ENDURATED—The exclusive Higgin design and construction which insures utmost quality and enduring service.

HIGGIN
ALL METAL
SCREENS

THE HIGGIN MANUFACTURING CO.
Newport, Kentucky.
Please send me the Higgin Screen Book.

If the lovely colors you prefer seem too fragile to endure, remember, every

**ORINOKA
SUNFAST
DRAPERY**

is guaranteed not to fade



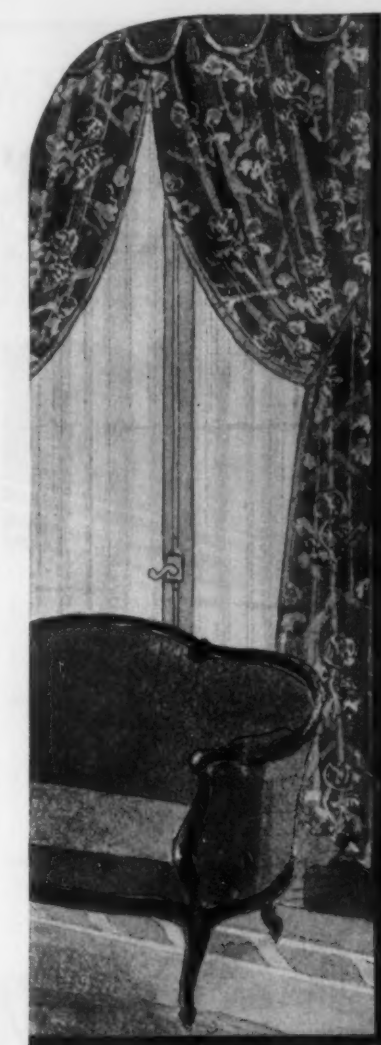
Time cannot touch these lovely colors . . . nor sun nor wind nor water. They are as enduring as the very fabric into which they are woven. However subtle, or brilliant, their tints . . . the cool pale green of Marie Antoinette, the rose and gold of a fine Directoire damask, the carnival colors of Sardinian cloth . . . they will not fade.

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In the Orinoka booklet, "Draperies and Color Harmony," are shown twelve rooms, period and modern, planned and executed in color by a well-known decorator, using appropriate Orinoka Fabrics. These same fabrics, you may see in all their real beauty in the drapery departments of leading stores. Ten cents in coin or stamps will bring you the booklet and the name of store nearest you. Use

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Draperies . . . colors guaranteed sun and tubfast



An interesting treatment of French windows, as shown in the Orinoka booklet

the coupon below. The Orinoka Mills, 183 Madison Avenue, New York City.

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183 Madison Avenue, New York City
Gentlemen: I should like a copy of the Orinoka booklet, "Draperies and Color Harmony." I am enclosing 10 cents.

Name _____
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Joanna Lee Tells How to Cut Down Your Kitchen Hours



You, too, can cut your kitchen hours with these very same pieces.

Patent Pending

"After all, it's really just a matter of common sense, this business of cutting down your hours in the kitchen. And it's proven such a revelation to me, that I just can't keep the good news from you. I first discovered how to do it right after a hard morning in my own rather too old-fashioned kitchen. It was while I was downtown, window shopping.

"Passing by one of the leading stores, I glanced in, and behold! saw the cheeriest, most colorful grouping of kitchen furniture I have ever seen. Right there before me were just the kitchen pieces that I knew I needed most. A beautiful white, compact kitchen cabinet; a Porce-Namel base table, trimmed in attractive colors, and arranged conveniently near, the most appealing of all, a colorful, sturdily built kitchen table, with concealed leaves which are brought into use automatically by merely raising the edges of the top. Believe me, it was too much of a temptation to keep from going right inside. I went in. I saw. And I learned. I learned what a time-saving and labor-saving kitchen really was like. I was shown the various pieces of MUTSCHLER Porce-Namel Kitchen Furniture (for that was the name of the pieces that first caught my eye). I discovered, for the first time, how good looking and practical kitchen furniture can really be. And you may be sure that I didn't lose any time placing some of these pieces in my own kitchen.

"The illustration at the top shows the three Porce-Namel pieces that I bought. You can see for yourself how perfectly proportioned and daintily designed they are. Porce-Namel kitchen furniture is Stainless, well-built, easy to clean, and easy to keep clean. All of the hardware is rust-proof; the drawers dust-proof. And such a delightful number of smart color combinations to choose from! In fact, it seems as though there is no end to the number of color schemes that may be worked out.

Write for this booklet

Fill out the coupon shown below. Mail it Today! It will bring you an unusually interesting booklet on "First Aids to First Class Cooking". Address:

MUTSCHLER BROS. COMPANY
Dept. C-116, Nappanee, Ind.

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KITCHEN FURNITURE

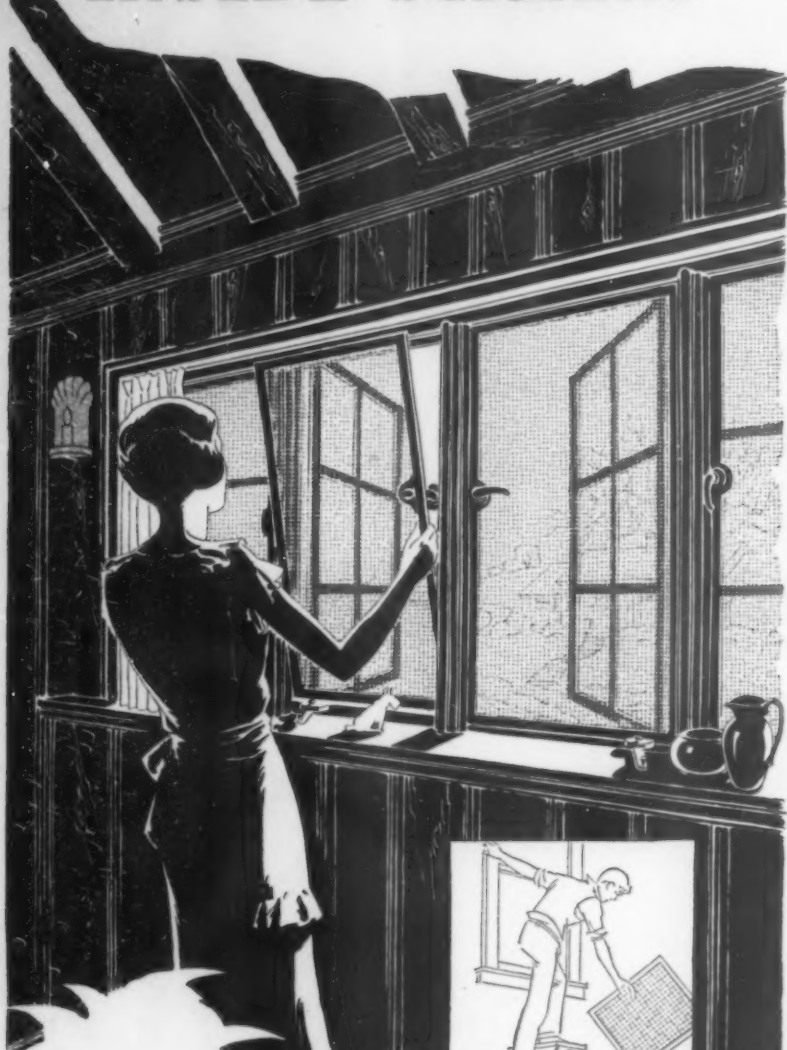
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Dept. C-116, Nappanee, Ind.
Gentlemen—Send me your free booklet on "First Aids to First Class Cooking," and tell me where to see Porce-Namel styles.
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Casements

WITH CONVENIENT INSIDE SCREENS ••



Ordinary windows
have bothersome
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FENESTRA Steel Casements are now equipped with attractive metal framed, bronze mesh screens, attached or removed from the *inside*. They're put on or taken off in a jiffy, but it's easier to leave them in place the year round. They're almost invisible either from within or without and Fenestra Casement hardware is so designed that the window opens, closes or locks *through* the screen but without once touching it.

You'll like the other Fenestra Casement features too: easy washing from within the room; more light; better control of ventilation; finger-touch operation without warping, swelling, sticking; weather-tight closure without need of weather-strips. And all this at a price as little as the cost of ordinary windows!

DETROIT STEEL PRODUCTS COMPANY
2273 East Grand Boulevard Detroit, Michigan

Fenestra

STEEL CASEMENTS SCREENED

What about your window shades?

Continued from page 441

a good window shade. First, it must work. It should respond easily and quietly to action. It should stop where you want it and stay there until raised or lowered. It should hang straight and true. These are matters of the roller and installation. When you buy shades look carefully to the roller. The best standard rollers (and it is economical to pay for this hidden quality in the window shade) are made of selected white northern pine, because it is light, yet firm and strong, and free from sap and rosin. Good rollers are seasoned slowly, a two years' process, to prevent warping. The spring—the vital part of the roller—should be made of finely tempered steel wire.

When the shade is installed, the spring tension should be adjusted to ensure smooth action. If you hang your own shades, (a poor economy, incidentally) you may be grateful for the following suggestions: If the spring needs tightening, pull the shade down full or part way, take it out of the brackets and roll it up and put it back. If the spring is too tight, take the shade out of the brackets, unroll it full or part way, put it back and try it. Keep repeating this until the shade runs up and down freely.

A shade should be long enough so that it cannot tear from the roller when the shade is drawn to the bottom of the sill. Be sure that you purchase shades a foot longer than your window opening.

The quality of the shade cloth is another practical aspect that affects the service and appearance of your windows. Because shades are not the most conspicuous or attractive element of window decoration, many women economize on them. It is not necessary to buy the most expensive shade cloth on the market, but it is most advisable to select a closely woven, durable fabric, preferably handmade cambric. Just as the best dress materials are firmly woven and unfilled, so are the best shade cloths. Good shade fabric will not pinhole, crack, or tear under ordinary wear and exposure.

Certain simple rules govern the choice of shades for various types of houses. For example, the white stucco, concrete, or stone house should wear white shades, while many Cape Cod cottages and Colonial houses with painted white shingles and green blinds accent the note of color with window shades of green. Cream and écru shades, as a general rule, are not pleasing with white houses unless the trim is also cream or écru.

Brick houses with white trim and white pillars do well to keep their shades white also. Tapestry brick affords greater variety of tone in selecting shades. A note of tan, gray, green, or even soft, dull blue may be accented in the shades.

Houses of pastel colors of concrete or stucco present a special shade problem. White shades look much too glaring beside the soft tints of such tropical houses. To choose shades that match the house seems like gilding the lily, despite the fact that shades are manufactured to-day in the most

fascinating rainbow tints. The selection of soft neutral tones, such as ivory, dove gray, stone, fawn, or écru, usually provides a cool note for these warm-tinted houses of Spanish influence.

Sometimes the shade selected for the exterior decoration is suitable for all the rooms in the house. Often the case is not so simple. A white shade that is charming from the outside strikes too blatant a note with soft cream walls within. Or a green shade completely destroys the harmony of interior hangings, wall, or floor covering. The answer for such problems is double shades, or even better, duplex shades. Duplex shades, a single shade with one color on the outside and another on the inside, may be obtained in various serviceable color combinations in stock shades. When odd combinations are desired, duplex shades can be made to order at a nominal additional cost.

Color harmony in interior decoration between shades and the rest of the room presents few difficulties. Here again the shade must be that inconspicuous but "just right" accessory. It may harmonize with the tinted walls. It may pick out a soft accent in figured wallpaper and repeat it or it may blend with the draperies, taking either the background of the fabric or some color note in the pattern as its motif. Invariably this color should be a soft accent, not a strong and dominant one. The draperies are the main factor in the window ensemble; the shade is a flattering complement.

Particularly are these conservative warnings applicable to living and dining rooms. The style of the shade, too, should seldom vary from the straight hemline, adorned with an attractive shade pull or tassel of harmonizing silk or rayon. Fringes and scallops tend to emphasize the shade to the disadvantage of draperies and glass curtains.

Self-striped and patterned shades in soft neutral colors afford a pleasant change from plain shade cloth. A low, wide window can be given the illusion of added height by the use of vertically striped shade cloth. Charming self-patterned shades in floral, cloud, and frost effects are available in white, ivory, pongee, fawn, and gray. These figured shades are not appropriate for windows with flowered or large patterned draperies or curtains. They may be used, however, for windows with simple sheer glass curtains or plain over-drapes of a solid color.

Greater leeway in shade cloth and color is permissible for the kitchen, bath, and bedroom. The modern vivid bath and kitchen invite indulgence in pastel shades, which are available in various price ranges of plain shades. The self-patterned shades mentioned previously may be had in a refreshing sea green and a warm amber as well as the paler tints.

Glazed chintz shades to match draperies, bedspreads, cushions, or what not find their way quite correctly and decoratively into milady's boudoir.

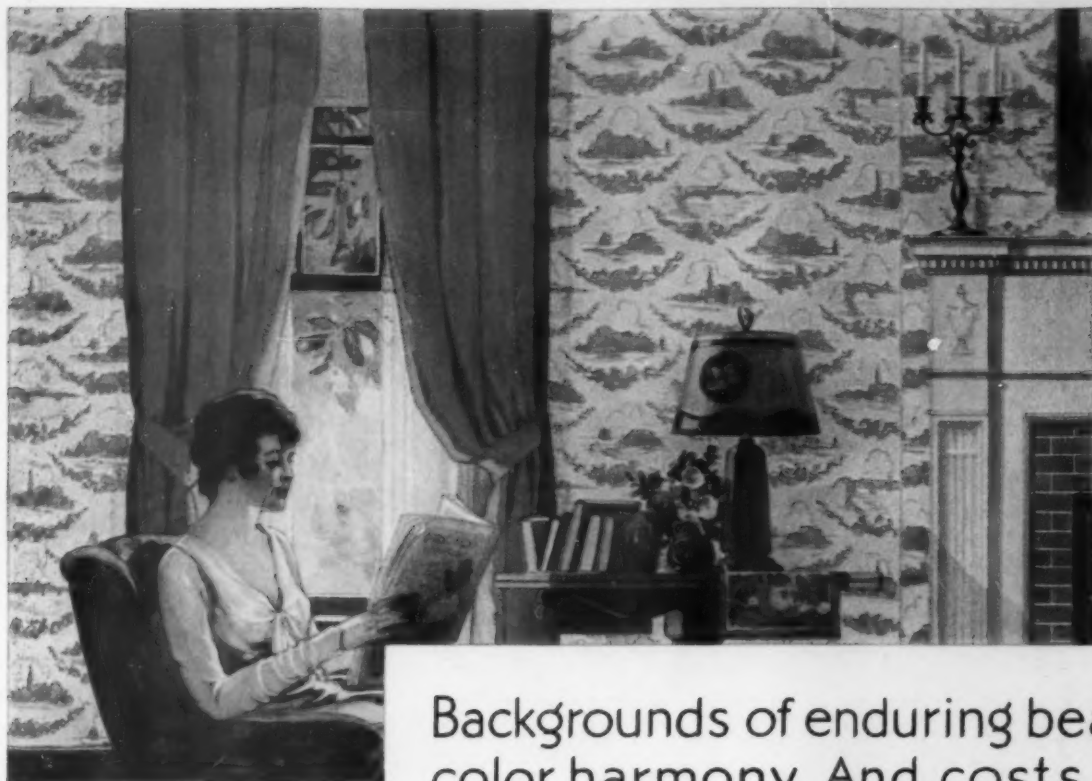
Photograph and drawing on page 452 courtesy of R. H. Macy & Co.

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RICH FABRIC COVERINGS

FOR THE WALLS
OF YOUR HOME



Backgrounds of enduring beauty: depth, warmth, color harmony. And costs surprisingly low!

SOME living rooms make you feel at home the moment you step into them. Comfortable chairs invite you. A low, broad sofa suggests relaxation. Color greets you in cheerful harmony with just the right accents—and an air of hospitality pervades the room.

And the walls—so much depends on the wall coverings. Beautiful backgrounds of Wall-Tex offer infinite possibilities in room decoration. That richness of fabric texture which decorators seek is an important part of Wall-Tex charm. It gives depth to the coloring and helps to achieve subtle harmonies of tone that are a prime requisite of tasteful decoration.

The new Wall-Tex colorings and patterns are exceptionally beautiful. Styled under the supervision of Virginia Hamill, they possess charming individuality. There are designs in wide variety for each room in the house—a selection that gives full scope to the expression of your ideas in interior decoration.

Nor are you limited from the standpoint of utility, for here is a wall covering of remarkable durability. The colors are non-fading. The surface can be washed repeatedly without harm. But a real washing is seldom necessary. When ordinary spots do appear or finger marks show, just wipe them away with a damp cloth. Wall-Tex is easily kept clean and beautiful. It hides plaster cracks, reinforces and becomes a structural part of the wall.

Whether you are building or redecorating, ask your decorator or dealer about this rich fabric wall covering. He will be glad to show you the complete line of charming new Wall-Tex patterns. Write us for interesting folders, "The Important Points of Interior Decoration" and "The Modern Trend in Wall Coverings."

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Makers of coated fabrics for 31 years



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BEAUTIFUL coloring, yes. But much of its beauty lies in its texture... Likewise, the fabric texture of Wall-Tex is an important factor in its beauty and charm.



No. 3316. Any one of the several well-blended colors in this delightfully modern pattern may be chosen as the key color in decorating the room.



No. 803 Satinesque. A de luxe wall covering of unusual beauty. The fabric texture results in changing light reflections, emphasizing the rich coloring.



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FABRIC WALL COVERINGS OF ENDURING BEAUTY

ALUMINUM PAINT



THE COAT OF METAL PROTECTION



Something Brand New!

Lumber dried, and moisture-proofed at the mill —
coated on both sides with Aluminum Paint

Lumber is absorbent. Improperly protected, moisture expands its cells—stretches its surfaces—paint top-coats check, crack and peel off. Modern mills first dry, then moisture-proof their lumber; seal it against moisture changes with aluminum paint. Result—paint top-coats look better, last longer. On the job, painters prime and back-paint with aluminum paint, too.

Today, you can buy siding, molding, trim, window frame and sash, that has been primed and back-painted with aluminum paint at the mill—protected against moisture penetration from both sides.

Aluminum paint shuts out moisture because it "leafs." When applied, the minute flakes of pure Alcoa Aluminum, that comprise the pigment, overlap, build up one upon another, to

form a coat of metal protection that blocks—defies—moisture.

Aluminum Company of America does not sell paint. But aluminum paint made with satisfactory vehicles and Alcoa Albron Powder may be purchased from most reputable paint manufacturers, jobbers and dealers. Be sure the pigment portion is Alcoa Albron, and is so designated. Let us send you the booklet, "Aluminum Paint, the Coat of Metal Protection." Address ALUMINUM COMPANY of AMERICA; 2423 Oliver Building, PITTSBURGH, PA.

ALCOA ALBRON
POWDER FOR
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WHEN GUESTS GO upstairs

EVERY housewife is particular about keeping toilet bowls clean. But scrubbing toilet bowls—the most unpleasant of all household tasks—is old-fashioned. There's an easier, quicker, safer way.

Sprinkle a little *Sani-Flush*, an antiseptic, cleansing powder, into the toilet bowl, follow directions on the can, flush, and instantly the bowl is made snow-white. All odors are eliminated. All germs killed. Even the hidden trap, which no brush can reach, is purified and cleansed by *Sani-Flush*.

Sold by grocery, drug and hardware stores, 25c; in Canada, 35c. The Hygienic Products Co., Canton, Ohio. (Another use for *Sani-Flush*—cleaning automobile radiators. See directions on can.)

Sani-Flush

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WITHOUT SCOURING

WANTED: Representative in each town for new easy selling proposition to home-makers. Generous commissions, bonuses and sales helps supplied. Especially attractive offer to club or civic workers. Apply Box 30 % The American Home, Garden City, N. Y.



One of our ALL WOOL Homestead Blankets (10 x 14 inch size) to demonstrate the rich texture and lovely colors of the full-size blanket. Your little girl will love it for her doll, or it's useful and decorative on your vanity or bureau.

This beautiful little blanket of fleecy wool is worth many times ten cents. We offer it to demonstrate the superior quality and value of our blankets. Simply send your name, address, and ten cents.

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GENTLEMEN:
Please mail me the miniature blanket. I enclose ten cents in coin or stamps.

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The Perfect Insulator

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INCREASED COMFORT and ACTUAL SAVINGS

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Mineral Wool is placed in the walls, floors and rafters of a building, forming a protective shield against cold, heat, fire, sound and vermin.

Send for this FREE booklet which describes in detail the decided advantages gained by insulating your home. Free sample of U. S. Mineral Wool will be sent with this booklet.



UNITED STATES MINERAL WOOL COMPANY

Dept. C., 280 Madison Avenue, New York

Western Connection—Columbia Mineral Wool Co., S. Milwaukee, Wis.

Dog kennel with partition. Walls and roof of cedar. Hard pine floor. Price \$22.



Old homestead bird house, 10 rooms, 16-foot pole. Price \$15.



Laying-house for 12 hens. Price \$35.

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SEND for the Hodgson booklet X. It pictures and prices the outdoor equipment listed here. Everything made of cedar and shipped to you finished, painted, ready to erect.

Dog Kennels
Picket Fences
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E. F. HODGSON COMPANY

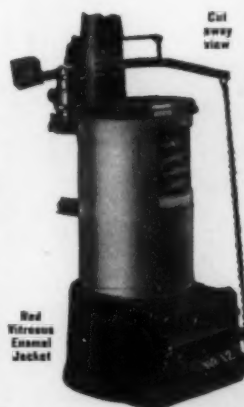
1108 Commonwealth Ave., Boston, Mass. 730 Fifth Ave. at 57th St. New York

Heat that Sun Room or Spare Room

with the MULTI-FLOW (Connects with Radiator)

While primarily, the purpose of the MULTI-FLOW Coal Burning Hot Water Heater is to furnish an abundant supply of piping hot (clean) water to kitchen, bath and laundry, it can be connected with radiator to heat a sun room, spare room, or several rooms.

In the average family, the MULTI-FLOW delivers continuous hot water 24 hours of the day on 20 pounds of coal, at a cost of only 10 or 15 cents a day. Operates for 2 or 3 days without any attention whatsoever with AQUA-MATIC REGULATOR outfit. Large copper coils and bronze fittings. Built to last many years. Write for illustrated folder and prices.



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203 River Street New Haven, Conn.

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The WALL PAPER ASSOCIATION will answer:

- How can a wallpaper pattern add height to my living room?
- How can I make that lofty ceiling look lower?
- How can I modernize an old fashioned kitchen?

There are many worth while suggestions for home decorators in this new 10c book!

- Our new book "Improve it with Wallpaper" is a treasure trove of interesting, helpful information. It will tell you how wallpaper makes a big, barnlike room cozy; how to brighten a gloomy room or how to subdue the glare in a room that is too sunny. It will help you to minimize the defects of awkward angles and cut up wall-spaces... it will answer almost any question you care to ask!

Small wonder that modern Interior Decorators rely so much on wallpaper for their effects! There really isn't a problem in wall decoration that cannot be solved satisfactorily and economically with wallpaper.

When you have glanced through your copy of "Improve it with Wallpaper" we believe that you will feel amply rewarded for sending for it and reading it carefully.

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Experts on patterns—on color harmonies—on the effect of light and shadow—on the control of interior architectural obstacles—on every phase of the many-sided problem of how to make your walls more beautiful. Just fill out the coupon and mail now while you have it in mind. It will prove helpful in a hundred ways.



IMPROVE IT WITH WALLPAPER

THE WALLPAPER ASSOCIATION, D-5
10 East 40th Street, New York, N. Y.

Please send me your new book "Improve it with Wallpaper." I enclose 10c.

Name
Address

Shop Windows of To-day

by SHIRLEY PAINE

AN ALMOST impossible task it would be to find as nice reproductions of antique lamps as these are, at such moderate prices. They would make charming lights for a dressing table, while the center one would be especially graceful upon a bedside table. Their design dates from the time when Napoleon was dictator of France, and now that there is such a popular revival of French Directoire furniture in America these painted tin lamps would add a finishing touch to your decorating scheme. Though they would fit particularly well in Colonial or French interiors, they would be stunning anywhere. Lamp base on left 9" high, center lamp 7½" high, lamp on right 7½" high. Choice of almond green, Chinese yellow, or red. By the way, the parchment shade measures 5½" in height and is decorated with a border strip of yellow gold. Price \$5. Treasure Trail, 49 West 23rd Street, N. Y.



A GLOBE is a necessity in every library but often it is as ugly as it is useful. This one, however, pictured at the left, is a handsome decoration and as complete a globe as we have ever seen. It indicates ocean currents, railroad and steamship routes, and the results of recent explorations and discoveries. A metal time dial enables you to tell the time of day in any part of the world. The meridian which shows the different degrees of latitude is movable, so that the ball can be placed at any angle or turned upside down to study the southern latitudes and Antarctica. The globe measures 9" in diameter. It will be sent prepaid on approval for ten days—if dissatisfied send it back at the manufacturer's expense. If you keep it, mail them \$12.75 cash or \$1.50 down and \$3.00 monthly thereafter until \$13.50 has been paid. C. S. Hammond & Co., 358 Farnum Street, Brooklyn, N. Y.



Coffee Pot, creamer and sugar bowl in decorated Deruta Maiolica - Is gay 'Maggiolino' pattern on yellow ground. As shown \$10.00 with Teapot \$9.00. Four coffee cups \$12.50 or four tea cups \$11.50.

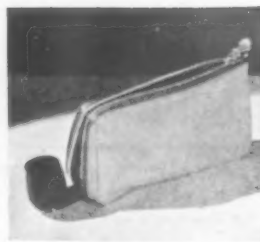
ALL EXPRESS PREPAID

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342 Boylston Street, Boston

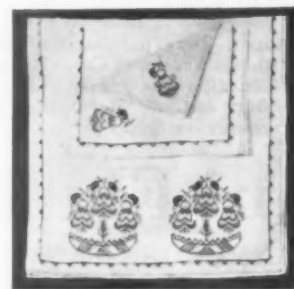


THIS copper jar pictured above is fashioned after an old ceremonial one, which was used in ancient times for weddings, etc. Either person took hold of each handle, and drank together, from the same cup. It will make a charming ornament with its amusing shape and odd handles. It was found in a quaint out-of-the-way shop that contains row upon row of shining brass and copper. 5½" high; top 6½" in diameter. In copper only. Price \$4.50 express collect. B. Paleschuck, 21 Allen Street, N. Y.



AN IDEAL gift for any man is this tobacco pouch. It carries not only an ample supply of tobacco but the pipe as well. Just the right size to slip into your pocket. No more misplacing your pipe when you can tuck it in the extra pocket provided for it at the bottom of this pouch. Made throughout of the finest leather with a convenient zipper fastening. With pipe included, in pigskin \$5.50 and in ostrich leather \$6.50 prepaid. Send orders to A. G. Spalding, 518 Fifth Avenue, N. Y.

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6 Mats 12" x 18" 1.25 each
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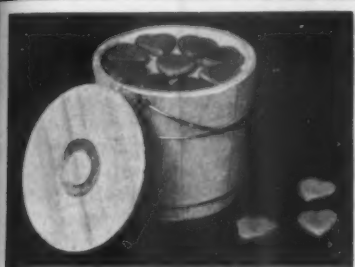


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SHOP WINDOWS OF TO-DAY



Vermont sends this "Sap Bucket"

of real Maple Hearts

You'll love them—fresh from the heart of the maple country. Daintily packed in a unique "Sap Bucket" of natural wood, as illustrated. A true maple confection. Deliciously smooth and rich in the tang of the sugar orchard. Novel for bridge candy or prizes—ideal for gifts. Send today for your Sap Bucket—contains 1 lb. 5 oz. net. Fresh daily—to you or to your list—\$1.50 postpaid (West of Miss. R. \$1.65). Sap Bucket of 1 lb. Grandfathers' Stirred Sugar, \$1.00. Filled with 2 lbs Pure Maple Sugar, \$1.25. With 1 lb. Assorted Fudge, \$1.50.

Write for price list of pure maple syrup, sugar and confections. **MAPLE GROVE CANDIES, INC.** Route 25-B St. Johnsbury, Vt.

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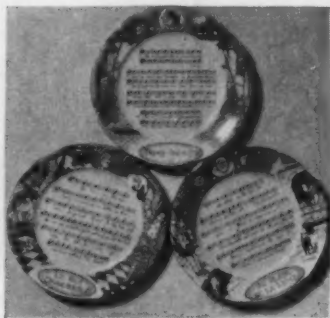


These two charming handwrought reproductions perform the dual purpose of beautifying and supplying subdued lighting. Fashioned entirely by hand, like the originals, they recall Colonial days when tall ships rode at anchor in New England harbors.

Quaint in shape, they are suitable for use with any furnishings or decorations. Handwrought in pewter, brass, copper and tin. With or without electric attachments at reasonable prices.

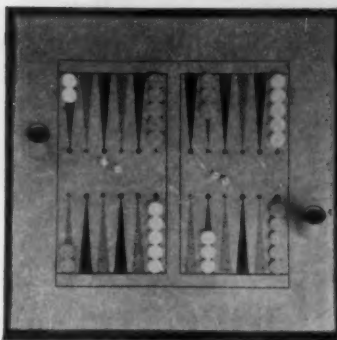
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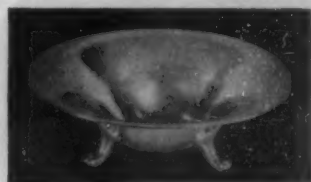


WHAT a jolly meal the children will have using these musical plates. A great incentive for any child to eat his spinach. An old French song is printed upon each plate, words and music, while around the border is an entertaining and appropriate illustration in bright colors. Among the more popular airs of those not shown are Sur le pont D'Avignon, Biquette, Marlborough, and La Bergere. There is only a limited supply in America as they are all imported from France. Order early for I cannot be responsible if the supply runs out before you get your order in. \$10.00 an assorted dozen. L. M. Triest, 514 Lexington Avenue, N. Y.

EVEN if you already own one backgammon board, you will find that you can hardly get along without another. This cloth, made of duPont fabrikoid comes neatly rolled in a slender cardboard cylinder. Will fit any bridge table, an elastic band holding each corner in place. The lovely almond green makes a restful color to play upon. When ordering *don't forget* to mention that you wish a Whitehill product, as there are many inferior makes upon the market. Price \$2.00. The red and white wooden men are \$5.00 a set—leather dice cups \$2.00 each. Dice 50c for four. Complete outfit \$9.50; all of the articles may be purchased separately. A. G. Spalding, 518 Fifth Avenue, N. Y.



ON THE left we have "Slim" and "Sandy." This cunning little Dutch boy of imported china is painted in gay colors and will brighten up your kitchen shelf. And don't forget that he uses his head. It is the handle of a knife sharpener that really works. "Sandy" holds a three-minute sandglass. She will see that the eggs are cooked just the right time and will also be useful for timing a three-minute telephone conversation. All in all, they are a handy couple and do their work most efficiently. "Slim" is only 5" in height while "Sandy" is a bit shorter. Priced at only \$1.00 for the pair. Daniel Low, Salem, Mass.



A CARR CRAFT Pewter Bowl for \$2.50

This charming pewter bowl makes an ideal bridge prize or anniversary present. It is 7" in diameter and can be used for flowerers, bulbs, or as a candy dish. You can examine it at your favorite shop by asking for the Carr Craft bowl No. 3247. If they cannot supply you, write us direct enclosing your check or money order.

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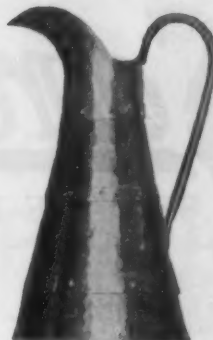
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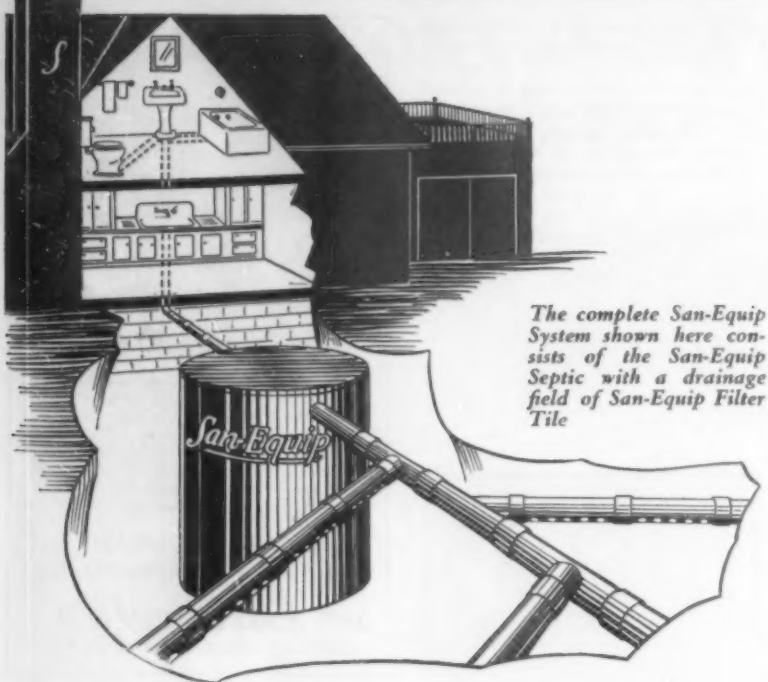


No. MC721—Your flowers will feel very much at home in this copper pitcher with its brass trimmings. It may also be used as a water jug, as the inside is pewter lined. This Russian jug is 12" high and has a capacity of a quart. Express collect. \$4.75.

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Highly decorative with its variegated foliage is Wandering-jew, also one of the easiest to grow

Indoor aquatics which you can grow

RAYMOND B. WAILES

PLANT lovers seeking something different will be rewarded in turning their attention to the small aquatic plants which can readily be grown indoors. One may not, however, expect to have a Waterlily or a Lotus indoors, because of their enormous demands on a large quantity of soil, water, and sunlight. However, there are quite a few of the aquatic flora which will delight the flower lover and add a touch of something that is different in the home.

Although desiring sunlight as much as their dry soil companion land plants, the water plants that can be raised indoors will be found to have attractions which their pot cousins lack.

They are much less susceptible to many of the pests which attack pot plants. Earthworms will not devour their root system for it is under water in muddy soil, and water is one thing that earthworms cannot tolerate, for a water laden soil means a soil containing little air and air is essential to

earthworms. Red spider, aphids, and other insects will not play havoc with aquatic house plants. Then too, one can never have too much or too little water for an aquatic house plant. An aquatic plant has its water requirements satisfied when there is water above the soil in which it is planted. One, then, always knows when it needs water, and there will be no danger in carrying it on the dry side.

Perhaps the commonest aquatic which is grown indoors is the Wandering-jew (*Tradescantia fluminensis*). This plant needs plenty of moisture and can be grown in water alone or soil topped with water. The ease with which this vase plant, or hanging basket plant propagates is remarkable. Cuttings, or slips, will readily root in wet soil or water.

The Umbrella-sedge (*Cyperus alternifolius*) or Umbrella-palm, is another common plant that can be grown in still water if its roots are in soil. A small plant can be potted in a (Continued on page 491)



Japanese Evergreen grows well in dark corners and seems to be indifferent to whether there is soil or not

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Indoor aquatics which you can grow

Continued from page 488

flower pot, using rich soil, and the soil topped with half an inch layer of sand and placed directly into the fish bowl or aquarium. The sand will prevent the soil from discoloring the water. The flowers of the Umbrella-sedge are inconspicuous and are found in the center of the umbel. It is readily propagated by planting an umbel upside down in soil which is kept very wet. It can also be grown from seeds.

The Egyptian Paper-plant (*Cyperus papyrus*) is sister to the Umbrella-sedge and may be grown indoors in a large jardinière containing soil and water. Although taller than the Umbrella-sedge, it has a decided likeness, but has a feathery tuft in the center of each leaf. It will require much sun to bring the Papyrus into its elegance, and this can be accomplished by sinking the jardinière in which it has been growing during the winter, into the garden at the approach of warm weather. It is not hardy in the northern portion of the country.

Parrotfeather, with its feathery foliage, can be used in hanging baskets if a water-tight metal container is used within. The plant must have soil and water for growth. In a goldfish aquarium sprigs of this easily broken and seemingly water-proof trailing water plant should be potted with soil in a thumb-sized flower pot, the pot being placed on the sand at the bottom of the aquarium.

WATER-HYACINTHS

The Water-hyacinth can be acquired frequently at the five and ten cent stores during the summer months. It will not bloom readily unless its feathery roots take hold in soil and, like other aquatic plants, the soil should be under water. It propagates very freely. Its queer bulbous leaves serve as little pontoons to keep it afloat in case the hairy roots lose their hold from the soil which gives it its nourishment.



Umbrella-sedge lends tree-like effect to an aquatic group. Its pot may be sunk completely in the water

It is a long way from indoor water plants to Chinese laundries, but in many of the latter places one can purchase a very attractive water plant which the slant-eyed proprietor will call Japanese Evergreen. Botanically, this is an *Aglaonema*. It will grow in water alone, but will relish a bit of soil in its vase-container. It propagates freely in water alone, sending out whitish roots. The writer has a plant which has been kept in a very dark room for three years; it, seemingly, never dies.

CALIFORNIA REDWOOD BURLS

California Redwood burls can now be had from several dealers in plants. They readily send out a feather-like foliage when placed in a bowl of water and in this respect could be looked upon as an aquatic in one sense of the word although they are obtained by sawing off the protrusions from the Redwood tree itself. These burls produce an interesting effect.

A small growing aquatic plant suitable for indoor cultivation is found in Arrowhead (*Sagittaria latifolia*). Its white flower stalk reminds one of a spring bulb in bloom. The Pickerelweed (*Pontederia cordata*) with its blue flowers offers another subject for indoor use, but the latter needs a larger amount of soil than does the white-flowered former, if bloom is to be expected indoors. Each will stand all the sun it may receive. These two perennial aquatics can be found growing along many of our inland waters.

The Water-canna (*Thalia dealbata*) with its powdery white leaves, requires much less water over its soil than do most of the aquatic plants. It can be grown in wet soil alone. Potted in an ordinary flower pot which rests in a water-tight pan containing an inch or so of water, the Water-canna will be in an ideal environment as its feet will be constantly wet due to the capillary action of the soil.

"WHAT? Is that all brass pipe costs?"



"Home-builders are surprised when I tell them how little more Chase Alpha Brass Pipe costs than pipe that rusts," says Philip H. Maher, plumbing contractor.



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For brass pipe *isn't* expensive. By using Chase Alpha Brass Pipe instead of rustable pipe, you'll add about three-quarters of one per cent to the building cost. On a \$10,000 house, that comes to only \$75.

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CHASE COPPER WATER TUBING

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What you ought to know about lawns

I. GEORGE QUINT

EVERYONE should have a lawn. Whether or not there is room for flowers, any space at all should be covered with restful, green grass. Gardens which otherwise might have been beautiful have been spoiled by an ill-kept lawn, and others that were below average have been given added attraction by a lawn properly cared for. Too many gardeners, however, consider the lawn the last resort, and merely scatter a few seeds on a bare spot, trusting in luck that a velvety, green carpet will grow.

1—What essentials must be considered in making a lawn?

There are four pillars upon which every lawn must stand. Without any one of them the structure will fall. There must be proper drainage, a grade that is pleasing to the eye and practical to the location, a sufficient quantity of good top soil (about four inches), and there should be no stinting in quantity or quality of seed.

2—What can be done to insure proper drainage?

Soil that does not drain properly is almost useless for lawns. The grass dies in the winter because of lack of air, and during the summer there are pools of water on the lawn after every rain. If these conditions exist, it may be necessary to lay tile. Four-inch tile laid thirty inches deep is the safest rule of thumb. A drain ditch may be dug by a draining spade, and the four-inch tile used for the main drains and the two-inch size for the laterals.

3—When should the lawn be started?

Though the best time to seed is in the last part of August and early in September, excellent results can be obtained by starting in March.

4—Is it better to seed or turf?

Where there is a steep bank, or a path to be bordered, or a patch to be started between flower beds, it is generally more satisfactory to turf. However seed may well be sown.

5—What is the proper amount of seed to use?

The usual amount is a pound for every 250 square feet of ground to be seeded.

6—Should manure be used as a fertilizer?

Manure is a great source of weeds, so only well-rotted manure should be put into use. The best fertilizer is a good top dressing of bone meal; one pound to every 200 square feet of lawn.

7—Should lime be used on lawns?

Weeds thrive in lime, and I should prefer to use those grasses which are adaptable to acid soils rather than to use lime to sweeten the soil. If the soil is acid and your lawn does not thrive, dig up the soil, turn it over, and plant grass that will grow there.

8—How can weeds be eradicated?

The first answer is to use the old form of exercise that consists of bending over, or getting down on all fours and pulling the weeds out. In the case of Dandelions this is the best bet. Dig out the roots with a chisel, when the grass is wet. However, several firms are selling chemicals that are successful. Iron sulphate, used at the rate of a pound to a gallon of water, has been employed to a large degree to eliminate Dandelions, Sorrel, and Chickweed. But it is possible that in most cases improper drainage, soil and fertilizers are the chief cause of weeds.

9—When should the lawn be cut?

New lawns should be cut first when the grass reaches a height of about four inches. Then cut it weekly. Do not rake off the clippings, for they protect the lawn and help conserve moisture. Continue to cut the lawn through the autumn. Just as long as the grass continues to grow, keep it with the mower.

10—How often should the lawn be watered?

That depends largely, of course, on the amount of rain that falls. However, during continued hot, dry spells the lawn should be watered thoroughly at least twice a week. The grass should be given a real soaking, not a superficial sprinkling. Frequent sprinklings with a hose, applied halfheartedly, merely wet the surface soil and do not permit the roots to get the benefit of the moisture.

Stepping stones

Continued from page 457

A suitable mixture is made by one part of cement to four or five parts of sand. The sand should not be fine of texture, but rough and containing plenty of pebbles of varying sizes. In addition it should be clean and without foreign matter such as clays or loam. If these be present, wash the sand three or four times with plenty of water in the mixing box before adding the cement.

Any desired coloring matter is added to the sand and dry cement. Add water until the mixture flows easily when it is poured into the molds which should be entirely filled, the top being smoothed off carefully with a trowel.

After about ten minutes the cement will have set sufficiently so that the

strips of wood can be removed. Take up the long side pieces first and the diagonals are then gently pressed from side to side and slowly pulled out. If any cracks or tears make their appearance, the broken parts must be pressed together at once. It is best to remove these wood forms as quickly as possible since if left until the cement has hardened the plates break easily and the wood is removed with great difficulty. In this latter case the break cannot be repaired by pressing, the entire block must be recast.

During the first few days prevent too rapid drying by covering with mats, old bags, etc., or sprinkle with water several times during the first few days. The blocks should dry from the center to the outside.



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In and About the Garden

— [*Edward Farrow*] —

GOD'S in His heaven—All's right with the world!" Gardens flourish and the bounteous beauty of the earth will be unfolding its richness as these words are being read though written in midwinter. Through the period of general depression one outstanding gleam of light has shone through the home and home making. The garden has maintained its own, taking as a whole the several branches of the industry that feeds the wants and demands of the home garden maker. It is not without some significance that through the period of depression this industry has suffered hardly at all. The American home makes a steady demand for the embellishments as well as the realities of life, and perhaps most decidedly so as regards the affairs of the garden because it is perfectly true that home production of vegetables has been slowly dwindling for the last few years, and it has now almost, if not actually, reached the inevitable turning point. There is good reason too for what has happened. With the appreciation of the sheer utility of beauty in environment of the home there was wrought a change in the use of the land that constituted the home plot. Flowers and ornamental shrubs ousted fruits and vegetables. The fact of the matter is, that the bulk vegetables which are really agricultural products are not worth while growing on the home plot. They can be bought in the market as needed for less cost than they can be raised at home, and in every way as good; but on the other hand there are the ultra refinements of fine quality types which it does not pay, cannot pay, the commercial grower and shipper to produce for market, and which, therefore, ought to find a place in the home plot. With the neglect of the old-time staple vegetables came instead the planting of ornamentals with the full consciousness of making the garden not so much a utility as an aesthetic accessory and a participant in the real joy of living.

Many agencies have been at work, too many perhaps. Not the least stimulating has been several series of what are known as yard and garden contests promoted throughout the country, stimulating the embellishment of the home garden plot and betterment of the home surroundings and singling out for honors in each district certain gardens of merit. Beyond that a grand national winner is selected by the National Yard and Garden Contest Association in Davenport, Iowa. This award is made by judging more than eight hundred prize photographs from the local contests which represented many, many times that number of original entrants. The stimulus has been strictly with the amateur gardener and the interest was more widely distributed and in greater volume in 1930 than in previous years. The accolade of honor for 1930

went to a garden in the city of Spokane, Washington, after it had won previously in several local contests. The final judgments for the national award are by comparison of photographs of the winners in the several sections. Mr. and Mrs. G. Ehrenburg with their two children of twelve and fourteen years of age are the makers of the successful garden in this nationwide contest in developing what is described as an outdoor living room. I am not at all sure that this substituting "outdoor room" for the time-honored "garden" of ancient association is entirely happy. True it is, that the garden has in the past too inevitably suggested the vegetable plot, but after all why not include vegetables? The really complete garden is a harmonious combination of utility and beauty.

Other prize awards in the nationwide contest went to Mrs. Augusta McElroy, Erie, Pa., and to Mr. Henry D. Knox, East Aurora, N. Y. Congratulations to all, and may their examples stimulate their neighbors to great emulation!

A NEW GARDENER'S DICTIONARY

AMERICAN gardening's debt to Dr. L. H. Bailey has been increased many fold through the recent publication of his *Hortus* (Macmillan). Just how much the progress of American horticulture in its present high standard of efficiency has been due to the vision and inspiration of Dr. Bailey, though well appreciated among professional horticulturists, is perhaps not so well known to the general public. Horticulture to-day is an accepted fact in the state colleges, yet it was L. H. Bailey who caused the creation of the first chair in a university for the teaching of horticulture. By his many writings as well as by his actual teachings he has both stimulated and fed the desire for knowledge. *The Standard Cyclopaedia of Horticulture* is the recognized multum in parvo of every garden library. Now in *Hortus* Dr. Bailey has given us what is properly described in the subtitle as "a concise dictionary of gardening and general horticulture," and is designed for a



The Spokane garden of Mr. and Mrs. Gus Ehrenburg that won the supervening honor of first place in the National Yard and Garden Contest for a personally tended garden

more popular, and, therefore, much larger audience than the original large work. Not that the new *Hortus* is by any means an abridgement of the *Cyclopaedia*. It is an entirely new work and handles the plant material in a different way. It makes no attempt to present botanical affiliations of the different species but merely presents them by the generally recognized names placed in alphabetical order, with a brief description—generally sufficient to afford recognition and distinction between allied species. It thus adheres strictly to the dictionary model. Usually the source of origin is given, and occasionally some cultural kink. (Continued on page 498)

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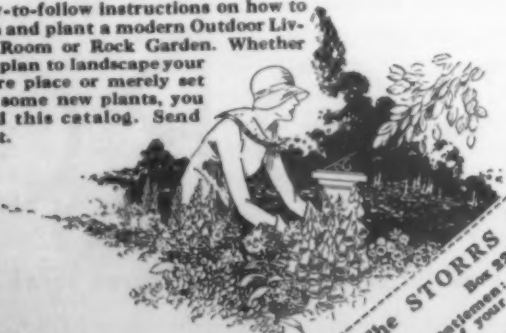


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Garden reminders

South

The Flower Garden—Break up clods, add fertilizer; level and rake beds to plant seeds or set out seedlings. Summer-blooming shrubs, or those which bloom in the fall, may be moved or pruned now: Althea, Oleander, Crapemyrtle, Duranta, Buddleia, Hibiscus, Malvaviscus, Clerodendron, etc.

Do not prune early-flowering shrubs such as Deutzia, Syringa, Forsythia, Philadelphus. Merely cut out dead limbs of Banksia or other climbing, spring-blooming Roses.

Hybrid Perpetual Roses may be pruned back to three eyes; Teas and Hybrid Teas need only to have sickly growth removed.

Prune Plumbago of all dead growth; do not transplant except from pots, after seedling stage is passed.

When all danger of frost is past, cut away dead leaves and stalks from Bananas, Thalias, Cannas, etc.

Divide perennials, such as Golden-glow (Rudbeckia), Shasta Daisy, Coreopsis, Chrysanthemum, Purple Salvia, Perennial Phlox, Canna, Hedychium, Alpinia, Jacobinia, etc.

Plant Gladiolus, Tuberose, Montbretia, Crinum, Hemerocallis, Zephyranthes, and other summer-blooming bulbs.

Fill shady spots with Hydrangea, Azalea, Lilies, Ferns, Oxalis, Forget-me-not, and native woodland plants like Lobelia and Spigelia; and Violets.

In sunny positions, set out English Daisies, Pinks, Stocks, Phlox, Sweet Alyssum, Snapdragon, Verbena, and other early bloomers.

Sow seeds of later bloomers, such as Sunflower, Dahlia, Cosmos, Ricinus, Salvia, Nasturtium, Coreopsis, Petunia, Zinnia, as well as more Pinks, Phlox, etc.

The Vegetable Garden—Fertilize, work, and level the beds and plant Celery, Lettuce, Parsley, Cress, Beets, Carrots, Radishes, Spinach, Mustard, Cabbage, Kohlrabi, Swiss Chard, Leeks, Chervil, Roquette, and other salads.

Towards the end of the month, tender vegetables, such as Okra, Tomatoes, Eggplant, Peppers may be planted from seed or set out from small pots, or beds.

Protect seed-beds from English sparrows by stretching cords along beds.

Miscellaneous—Prune all shrubbery except the early bloomers, and spray thoroughly about March 15, if it has not been done earlier.

Clean up the lawn, grubbing out weeds and planting new sod.

Fertilize with manure, bone meal, cottonseed meal, or commercial fertilizer, and river-sand; then roll. Use lime-sulphur spray for mildew, or dust with powdered sulphur.

For scale insects use oil emulsion; nicotine sulphate and whale-oil soap against aphids; Bordeaux mixture will discourage white fly.

Bulbs that have flowered indoors may be put out in the beds to renew their strength to make flowering bulbs another year.

Evergreens may be planted now. It is the best time to transplant Camphor trees, Hollies, Yaupon, and other "broad-leaved evergreens."

North

If you didn't make a hotbed last month do so immediately. Sow seeds of half hardy annuals and vegetables in the bed. Seeds may be sown after the temperature in the bed drops to 90 degrees or lower.

Transplant seedlings from flats as needed. Give them air and water.

Be careful about sowing seeds outdoors. Don't let the first few warm days fool you, for March is a fickle month, and frosts are likely even though the first balmy days do give you spring fever.

Give the garden a final clean-up. Paint garden furniture, fences, and trellises. Take up winter coverings gradually, but keep them handy in the event of an April frost.

Plant Rose bushes late this month. Prune last year's Roses before they make growth. Take dead wood from Ramblers.

Spray plants and trees.

Give lawn a bone meal top dressing. About the end of the month sow new seed where needed.

Sweet-peas may be sown on the last day of the month.

Give Honeysuckle and Clematis a good pruning.

Apples, Pears, Plums, and Cherries may be grafted.

Plant fruit trees.

Tie up Raspberries and Blackberries.

Put out Cabbage plants wintered in coldframe, but not before the last week of the month.

Make new asparagus beds; give beds some nitrate of soda.

Lime may be applied now to sour soil.

Start some seeds in the living room or sun porch. Salvia, Lobelia, Verbena, Delphinium, and Celosia will make a good collection.

Divide Cannas and Tuberous Begonias.

Take cuttings of Begonias, Geraniums, Chrysanthemums, Fuchsias, and Coleus.

Start Peas, Radishes, Beets, Carrots, and Parsnips outdoors about the 28th if the weather is mild.

The West Coast

Complete the pruning and planting of deciduous summer blooming shrubs and Roses.

The evergreens Eucalyptus and Acacias may be planted this month.

Sow new lawns now and fertilize old lawns.

Divide and replant the summer blooming perennials.

Set out Pentstemons, Carnations, Fibrous Begonias, Pansies, and Gladiolus.

Make cuttings of Heliotropes, Salvias, and Marguerites.

Divide the clumps of Violets and make new plants from the runners.

Remove spent house bulbs to the garden until the foliage ripens.

Sow annuals for summer blooming—Asters, Stocks, Marigolds, Mignonette, Nasturtiums, and Sweet Alyssum.

Do not let the weeds gain headway. Support the Sweet-peas as they grow.

Sow Cosmos for late summer blooming.

Overhaul and replant the rock plants and succulents.

A Page of SCHLING SPECIALTIES for 1931

Last Minute Novelties and Recent Introductions!

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Plant this collection of 6 choice varieties all at once this Spring, just as soon as the frost is out of the ground—and they will mature in the order named—producing a steady procession of big, mouth-watering crops from about June 20th till late in August.

The reason for this is evident. Peas must develop their roots in cool weather and so are able to supply sufficient moisture to leaf, flower and pod as they rapidly multiply under the Summer sun. On the other hand, late-planted peas are almost always a disappointment, as every experienced gardener knows.



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Ageratum Mexicanum Nanum, Rosabella—An exquisite new deep rose variety. Very dwarf, and with Ageratum Blue Cap below is unsurpassed for border planting. Pkt. 50c

Ageratum Blue Cap—A decided improvement on Little Blue Star. Each little plant forms a compact dome of blue flowers. Pkt. 75c

Arctotis Breviscapa Aurantiaca—Another lovely golden yellow daisy from Africa with purple center. Flowers very freely. Pkt. 50c

Aquilegia Crimson Star—A new Columbine with brilliant flowers of a dark, rich crimson, carried on long graceful stems. Pkt. 75c

Hardy Spring Flowering Aster, Subaerules, Warburg Star—Huge daisy-like flowers of bright lavender-blue, 4 inches across, on 28-inch stems. Blooms in May and June. Extremely effective with white daisies and galliardias in bed or vase. Pkt. 75c



Nicotiana, Crimson Boddier (Offer A)

Nicotiana, Crimson Boddier—Deep crimson flowers borne freely on 15-inch plants. A splendid bedding plant. Pkt. 60c

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Pentstemon Spectabilis, Blue—An abundance of bell-shaped flowers of richest blue carried on 4 to 5 ft. spikes. A beautiful rarity. Pkt. 35c

Lychnis, Forresti Hybrids—Very decorative for the rock garden. Long showy panicles in charming shades of crimson, carmine, pink, and white. April to May. Pkt. 75c

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Dahlia-flowered Zinnia, Golden Dawn (Offer A)



Ursinia Anethoides, New Hybrids, Jewels of the Veldt (Offer A)

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"Indian Summer"

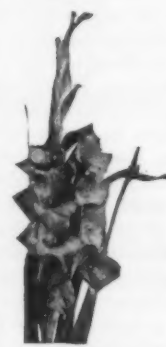
Latest and Loveliest of Schling's New Supergiant Snapdragons

Marvelous not only for size, though its flower spikes rival the gladioli in height and vigor—but also for its color, a rich velvety copper red hitherto unknown in snapdragons and indescribably beautiful—no other snapdragon remotely approaches it—a "First Prize" winner wherever exhibited.

1 pkt. \$1.00

6 pkts. \$5.00

Snapdragon Indian Summer



Gladioli

OFFER F

Glorious Gladioli

100 for \$3.50

Choicest Mixture—Including all the latest and most beautiful varieties such as the lovely Primulinus or Orchid Gladioli, running a gamut of subtle pastel shades from ivory yellow to an iridescent bronze such as mark the finest nasturtium collections. Start planting April 25th and every 3 weeks thereafter to July 15th and enjoy a long processional of beautiful bloom.

A \$7.00 Value for only \$3.50 or 50 Bulbs for \$2.00.

Book for Garden Lovers—a guide to better gardens. 35c a copy. Free with orders.

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"Long Season" Pea Collection

Schling's Pedigree Extra-Early, 2½ feet. Gradus or Prosperity, 3 feet. Delicious flavor. Sutton's Excelior, 1½ feet. Very sweet. Dwarf Champion, 2½ feet. Enormous cropper. Improved Telephone, 5 feet. Enormous pods. Heroine, 4 feet. The latest to mature.

A—½ lb. each of all 6 varieties, 3 lbs. in all. \$1.75
B—1 lb. each of all 6 varieties, 6 lbs. in all. \$2.75
C—2 lbs. each of all 6 varieties, 12 lbs. in all. \$5.00

For once—all the green Peas you want if you buy this collection. Delivered free within 300 miles. Beyond add 5c per lb. for postage.

OFFER G

Twelve Prize Dahlias!

At the Amazing \$5.00
Price of . . .

Gives you the Greatest Value ever offered on any Dahlia Collection

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Total \$21.75

By a special arrangement we are able to offer a limited number of this choice Dahlia collection, consisting of 12 exhibition Dahlias in 12 named varieties, at a truly remarkable price concession. They are all exhibition varieties that will be the pride of your garden for years to come.



Prize Dahlias

OFFER H

Montbretias

whose flower clusters, in exquisite pastel shades ranging from pale yellow to deep orange, hung like golden stars on long, slender, wiry stems, have all the airy grace of the orchid Odonoglossum. Plant the bulbs in April and May, 3 inches deep and enjoy them all season. Easily grown.

25 Bulbs for \$2.00
50 for \$3.85
100 for \$7.50



Montbretias

OFFER I

Giant French Poppy Anemones

Marvelous poppy-like flowers in wonderful color combinations. Blues with white bases; Pinks with blue bases. Cream and apricot shades in endless profusion. Truly a gem of the first water! Plant bulbs in May, 3 inches deep.

25 Bulbs for \$3.00
50 for \$5.50
100 for \$10.00



Giant French Poppy Anemones

Sowrite Seed-Sower

Sows Seeds at a Touch!

Enables the amateur to sow all fine seeds, such as in the Offers above, with the skill of the professional. Saves time, labor and seeds. \$1.00



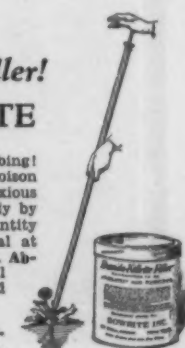
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A Perfect Weed Killer!

DANDO KILLRITE

No stooping—no grubbing! Destroys dandelions, poison ivy, and all other noxious weeds easily and quickly by depositing a small quantity of the Killrite chemical at the heart of each plant. Absolutely harmless to all animal life, hands and clothing.

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I enclose \$..... Send me Green Peas () Offer A () Offer B () Indian Summer () Offer F () Offer G () Offer H () Offer I () Sowrite Seed Sower () Dando Killrite () "Book for Garden Lovers" ()

Name.....

Address.....

If you would have a garden fair prepare your SOIL

All garden soils—even those that look dark and rich—need an additional supply of humus every year, to maintain correct soil texture. The proportion of humus in soil controls the amount of life-giving and beauty-giving food and moisture plants will be able to get. The better the soil texture, the more luxuriant will be the foliage and bloom.

The safest, surest and least expensive humus is G.P.M. Peat Moss. Like billions of tiny sponges—it is guaranteed to absorb and retain more moisture, and contribute more humus, over a longer period of time than any other commonly used medium. It helps plants breathe, controls temperature, and increases fertility by creating that "fine" yet absorbent condition which best promotes root development. But be sure to specify G.P.M.

Sandy and clayey soils require proportionately more humus than garden loam—but your garden, every garden needs the addition of this vital element this spring. Let us send you complete information and prices.

PEAT MOSS

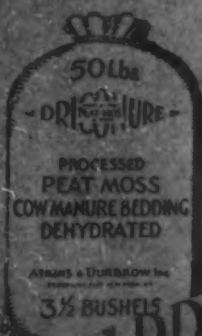
MAKES POOR SOIL GOOD AND GOOD SOIL BETTER

...At last Nature's own fertilizer... odorless·concentrated·safe

Driconure is a pure organic compost of vegetation that Nature has been composting for perhaps a thousand years; added to which is fresh cow manure and the whole dehydrated to concentrate and strengthen. The result is a most unusual fertilizer—Nature's own method of feeding. And Nature's method is always best... produces better results... better color... better all-around satisfaction.

No finer combination of materials could ever be prepared by human ingenuity—none that will give as satisfactory garden results. Nor will you find anywhere a fertilizer that both feeds your plants and builds up a reserve at the same time—except in DRICONURE. It is the greatest advance in fertilizing and soil building that has been made in many generations. Odorless, free of weed seeds, every bit will feed your plants without waste, for its food value is held at the plant root level until it is all used. You are also safe in the assurance that it will not burn.

Try this age-old friend in its new form. Literature on request. 3½-bushel bags of fifty pounds, \$2.50 f.o.b. Juliustown, N. J., or through your local dealer.



ATKINS & DURBROW, INC.
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Why grow vegetables?

Continued from page 454

are the vegetables to which it might be planted for best returns:

Bush Beans. Sow any time after May first; rows 2 ft. apart, 3 inches deep; seeds 4 inches apart. Bountiful Green Pod or Sure Crop Wax, ready in 60 days.

Radishes. Sow any time after April 15th; rows 1 ft. apart, ½ inch deep; seeds ½ inch apart. Rapid Red ready in 3 weeks, White Icicle, 4 weeks. Sow short rows often.

Beets. Sow any time after April 15th; rows 18 inches apart; ½ inch deep; seeds 1 inch apart. After sowing walk over row to firm soil. Eclipse ready in 50 days, Detroit Dark Red in 60 days.

Lettuce. Sow any time after April 10th; rows 2 ft. apart, ½ inch deep; seeds 1 inch apart. Thin out plants to stand first 4 inches, then 8 or 10 inches apart. May King ready in 50 days. Crisp-as-Ice and California Cream Butter 65 days. All Seasons and Iceberg 75 to 80 days.

Those having gardens 50 x 50 ft., should by all means grow the following additional vegetables, also suggested in order of their relative importance:

Bush Lima Beans. Sow any time after May 25th; rows 2½ ft. apart, 2 inches deep; seeds 6 inches apart. Press beans into rows eye down! Fordhook ready in 70 days. Burpee-Improved 80 days.

Tomatoes. Sow under glass April 1st; set out plants after May 30th. Space rows 3 ft. apart; set plants 2½ ft. apart in row and train to stakes. Chalk's Early Jewel matures 50 days after planting; Marglobe 45 to 50 days; Stone 65 days.

Sweet Corn. Sow any time after May 15th; rows 2½ ft. apart, 2 inches deep, seeds 2 inches apart. Thin out to stand a foot apart and hill slightly. The Burpee ready in 75 days; Golden Bantam in 85 days, Country Gentleman 100 days.

Peas. Sow any time after April 15th, rows 2 ft. apart, 2 inches deep; seeds 1 inch apart. Provide brush or

wire trellis. Market Surprise ready in 45 days; Little Marvel 55 days; Thomas Laxton 65 days; Potlach 75 days.

Onions. Sow any time in early April; rows 18 inches apart, ½ inch deep; seeds ¼ inch apart. Thin out repeatedly or bulbs will be ill shaped. White Portugal ready in 100 days; Yellow Globe Danvers 115 days; Southport Red Globe 125 days.

I have alluded previously to the desirability of keeping every row constantly busy by following up one crop with another. In connection with this, bear in mind to rotate the different vegetables, meaning not to permit the same vegetable to succeed itself in the same row. Rather let root crops be followed by vegetables of a leafy nature and vice versa. For instance, Beans may be rotated with Celery, Beets with Lettuce, Carrots with Beans, and so on. Early Lettuce may be followed by Tomatoes. If the Lettuce is too small to be thinned out by Decoration Day (which it should not be) set your Tomato plants between the rows of Lettuce, or make room for the Tomato plants in the Lettuce rows.

The garden of still more liberal dimensions will also hold some such delicacies as Brussels Sprouts, Cauliflower, Sweet Peppers, and perhaps some Eggplant. But growing these from seeds is the work of specialists, and it is easier to buy whatever plants are needed rather than to court disappointment by experimenting with seeds.

And speaking of seeds, buy them in bulk (meaning fractions of ounces or pounds), rather than in packets. Of course packets of fine grained seeds such as Lettuce or Onions contain sufficient quantities for the average home garden. But of Beans, Corn, and Peas, the gardener should buy pounds or fractions; and talking of Peas, unless you can set aside at least 50 feet of row for these, it is hardly worth while to bother with them at all!

In and about the garden

Continued from page 494

The object has been to include every plant and the main botanical varieties now in cultivation in this country and Canada outside the botanical gardens and such like specialized institutions. Purely transient varieties such as form the bulk of seasonal novelties in groups like Dahlias, Gladiolus, Roses, and such like, find no place in this volume. For such, reference must be made to the specialists' current catalogs and check lists and publications of agencies that are specially concerned with the particular flower or plant.

In a sense the new *Hortus* parallels the well-known English *Johnson's Gardeners' Dictionary* but it differs from that in that it briefly describes each plant listed, but the older book will still find use as a reference for dates of introduction. Brief paragraphs on various topics of practice are included. *Hortus* will to a large extent serve to answer the oft repeated question: where can I get a book that tells me all about gardening and plants? Of course no one book

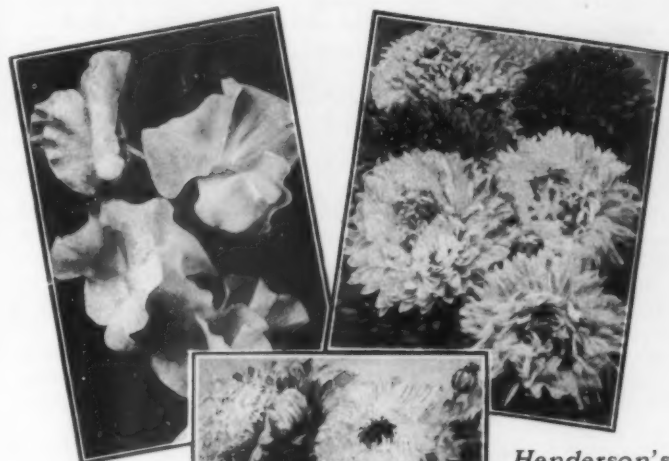
can really cover "all," but this concise dictionary probably comes as near to that goal as is practical in one volume.

The book contains 652 pages, and is embellished with a few halftone illustrations which are in no way essential to the text, but mere "window dressing."

Iris lovers will welcome the latest contribution to American Iris literature in *Rainbow Fragments* by J. Marion Shull (Doubleday, Doran, \$3.50), a book beautifully written and beautifully illustrated with eighteen color plates also by the author, cultivator, breeder, and student of the Iris. In addition to chapters on raising new varieties and general cultural details is an interesting series of brief biographies of the leading breeders of Iris and appraisal of their work, a plan for an Iris garden, a list of the better varieties, and a general tabulation of nearly a hundred of what are generally acknowledged to be the best of the tall bearded varieties.

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Spencer
Sweet Peas

Henderson's
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Asters



Brilliant Mixture
Poppies



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MAIL the coupon with only 10 cents, and we will mail you "Everything for the Garden," Henderson's new seed catalogue, together with the new Henderson 25-cent rebate slip, which will also entitle you, without charge, to the Henderson specialty offer of 6 packets of our tested seeds with your first order amounting to \$2.00 or over.

These 6 packets are all seeds of our own introductions, and are among our most famous specialties—Ponderosa Tomato, Big Boston Lettuce, Early Scarlet Turnip Radish;—Invincible Asters, Brilliant Mixture Poppies and Giant Waved Spencer Sweet Peas. These, like all Henderson's Seeds, are tested seeds.

For 84 years, HENDERSON'S TESTED SEEDS have been the standard. Year after year, our constantly improving methods have enabled us to maintain our supremacy among American seed houses. The initial cost of your seeds is the smallest item in your garden's expense, and it is of advantage to plant seeds of recognized quality from a house of reputation and standing.

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This is a beautifully illustrated book with 16 full-color plates and hundreds of illustrations direct from actual photographs of the results from Henderson's seeds.

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vegetables throughout the Summer, and collections of flower seeds especially arranged for harmony of color and continuity of bloom.

It is a complete garden book, and should be in the hands of every lover of the garden beautiful or bountiful—Clip the coupon now.

Every Rebate Slip Counts as Cash

With every catalogue will be sent our Henderson Rebate Slip which, returned to us, will be accepted as 25 cents cash payment on any order of two dollars or over.

In addition we will include with your order, without charge, the Henderson specialty collection of three packets of Vegetable and three packets of Flower seeds as described above.

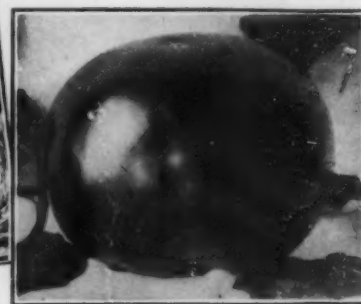
PETER HENDERSON & CO.
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Early Scarlet
Turnip Radish



Big Boston
Lettuce



Ponderosa Tomato



Delphiniums . . . and Roses

Thousands upon thousands of tall, graceful spikes . . . infinite tints and shades of blue . . . never have we seen such a glorious, enchanting display of Delphiniums. This year many new types have appeared, with gorgeous color combinations and large, double, individual flowers. They will bring you a wealth of garden joy thru all the summer months. Fine types not named but selected in shades of light blue, dark blue and mauve are \$1.00 each, \$10.00 per dozen. "Run of the Field" strong clumps, not marked as to type or color, 50c each, \$5.00 per dozen, \$35.00 per hundred.

When you think of Roses, think of Totty's . . . for this year, as in the past quarter of a century, Totty's presents one of the most complete and varied selections of novelty and standard Roses obtainable. They are fully described and illustrated in our 1931 catalog, which also includes some especially prepared collections for the amateur grower. The catalog will gladly be sent upon request.

Totty's

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MADISON, NEW JERSEY

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For Your
Free Copy of
Totty's 1931
Catalog



Two small glories of the garden

Continued from page 433

Jersey Gem because it does not come true to type from seed is probably best propagated from cuttings taken from selected plants, but G. Wermig is good enough from seed. Of the two, Jersey Gem is far the better having larger flowers of a more pleasing color and possessing all the heat resisting qualities of cornuta, and it produces good bloom on long stems over a long period. Given a rich soil in sun where they will not suffer for moisture, these two *Violas* should prove among the best investments of the retail grower."

Without doubt, the cornuta group of *Viola* varieties gives the best of all edging plants for the hardy garden or border. They begin to flower in late April and continue until November sometimes even to the very first snowfall. The secret of their persistent bloom, however, rests with the watchful gardener who furnishes water during seasons of extreme drought and who keeps the plants sheared several times during the summer. The pruning makes symmetrical the growth which sometimes becomes untidy and retards excessive seed formation which in time destroys the vitality of the plant.

As consolation for the massive flowering Pansies which depart with the first extreme heat, we are prone to select the large flowering forms of *Violas* for our gardens. They are more flamboyantly beautiful than the smaller types, but not nearly so heat resistant. They require expert pruning during the summer for if cut back too closely in torrid dry weather they will die outright. In the cooler belts of the country, particularly the mountain sections and regions bordering onto, all types are easily handled and furnish the maximum bloom with little attention.

No dearth of good varieties exists. All seedsmen handle the aristocracy of the *Viola* tribe. *Floraire* is a Swiss importation and has small blossoms of pale blue. The low growing G. Wermig, the White G. Wermig, *Viola bosniaca*, *Papilio*, and *Lord Nelson* are all highly recommended for the rock garden. *Gracilis*, a tufted species with small blue flowers is also splendid for the rockery in those localities where the plant does not weaken under heat.

Two rather recent introductions from England have won ready acceptance. Sutton's Apricot, a lovely yellow shaded deeper toward center of flower and Sutton's Gem, a blend in which rose shades and clear pinkish mauves predominate. For the grower who seeks further variety there is *Admiration*, large dark blue; *Lutea Splendens*, golden yellow; *Primrose Dame*, sulphur yellow, and an adorable little fellow called Puck whose two upper petals are a velvety violet and three lower are golden yellow. He appears a glorified Johnny-Jump-Up snatched from some childish garden of memory. The lists show further desirable varieties in *Rosea*; *Thuringia*, dark blue with white eye; *Mauve Queen*; *White Perfection*; and *Improved Scotch Mixture*. The last named strain is a very showy assemblage, three and five blotched.

But the most sought after *Viola* in the world to-day is *Jersey Gem*.

There is not a plant nurseryman today who will not advertise it as his best *Viola*. The true *Jersey Gem* possesses the dwarf characteristics and continuity of bloom which distinguish the true cornuta type. The color is a pure rich violet, the plant vigorous, foliage roundish, and it is absolutely indifferent to heat, blooming most profusely the summer through, provided the soil is deep, rich, and moist.

Mr. Weston who gave us that gem has made two other notable contributions to the *Viola* family, *White Jersey Gem* and the newer *Jersey Jewel*. His latest is more nearly a mauve in color but nearly twice the size of *Jersey Gem*. It is a very heavy seeder, whereas the other offerings are extremely shy seed producers. The bloom of true *Jersey Gem* is characteristically its own. It has a most independent tilt or set of its head, amusingly human.

Anyone with common intelligence can succeed with *Violas* at the first attempt. In cool, moist regions, the seed germinates as readily as Pansies. It is most necessary that the soil of the permanent bed be rich, deep, and moisture retentive. Leaf mold and peat will improve the physical condition of the land. The incorporation of lime will sweeten and help prevent stem-rot which is sometimes prevalent when soil is too acid.

Unquestionably, early spring is the most desirable of all seasons for sowing the *Viola*. If there is a vacant bed which has been prepared the previous fall rake it over the first day you begin your garden operations and sow the seeds. Don't be afraid of what a late spring frost may do to the plants. *Violas* are not tender perennials. When they show their faces above soil their constitutions are stalwart enough to withstand chilly weather.

Some gardeners do not get a thrill from seed sowing and prefer to buy their plants. Seed sowing is not the only method of increase. With varieties which are shy seed bearers or which do not come true through propagation may be by cuttings. The average grower hasn't a greenhouse and cannot employ the florist's routine of lifting plants and rooting cuttings in midwinter. There is a simpler plan, that of rooting the shoots while they still adhere to the mother plant. Every gardener growing perennials has tried this on perennial Candytuft and like plants. The procedure is something like this: When the *Viola* bed has been sheared its last time for summer, watch carefully the new basal growths. When these have reached a height of four inches, pile a generous trowelful of clean, sterile sand about the crown of the plant, water well and shade lightly, if possible, while rootlets are forming. When the cool nights of late September arrive, strip the semi-rooted plants from the mature one and set in a coldframe where winter protection may be given when severe weather arrives. *Viola* plants left undisturbed in the open require little shelter from the cold. A little clean wheat straw or hay piled loosely about them and anchored so as not to be blown away by severe wind is all that is necessary.

How To Prevent Planting Mistakes



A SUGGESTION

You have wanted some plants that nestle close to mother earth. Creeping Phlox or Phlox Subulata is one of the best. The thick evergreen foliage is literally covered by miniature daisy-like pink, white or lilac blossoms. It revels and blooms anywhere. Along paths, driveways, among rocks and even in gravel, it thrives.

The price for any of the 3 colors is: 3 for \$.85; 12 for \$2.50; 100 for \$18.



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WHETHER you are, or are not, a rock garden or hardy garden expert, there always are some things to be found out about the best way to get the best results. Some of you may be just starting a garden—perhaps just a small one—and want to know exactly how to plant each and every plant. All of which is why you are going to give the new Wayside Catalog such a warm welcome. It takes nothing for granted. Not only will it help you to get the finest quality hardy plants, but it shows you exactly *when, how and where* to plant and grow them. If you want to know the full details of making a rock garden, we have an interestingly informative book, which we will gladly send you for 25 cents.

There's one thing you must at once bear in mind, and that is, the necessity of planting rock plants early. So if it's top notch results you seek, send at once for Wayside's Catalog of strictly quality plants.

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Plant this Spring and enjoy abundant shade in a few short years.

The tree shown is growing at Sodus Point, New York, on Lake Ontario. When planted three years ago it was a little whip 5 feet tall. Last August it measured 17 feet high, with a branch spread of 10 feet and a 4-inch trunk.

The Chinese Elm is the fastest growing tree we know. It thrives anywhere, in any kind of climate, from Arizona to Saskatchewan. One of the first trees to leaf out in Spring and the last to shed in Fall. A tree of rare beauty and symmetry, resisting drought and cold, and flourishing in poor soil. It is ideal for planting on new developments, subdivisions, streets, in parks, for wind-breaks, screens and as individual lawn shade trees.

CAUTION! Be sure to buy only the hardy North China Strain, endorsed by the U. S. Department of Agriculture. Cheap Chinese Elms from seed gathered near Nanking have none of the fine qualities of the North China Elm, and results from planting them are disappointing. We grow only the hardy, North China Elm.

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Our new Catalogue, beautifully illustrated in full color, describes the Chinese Elm, and a complete line of Evergreens, Shrubs, Perennials, Trees and Plants of every variety for large or small planting.

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CHRONICLE
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Does Laurel Twinkle in Your June Garden?

We think of *Kalmia latifolia* as the twinkling rosy white maiden of our woods. The outstanding beauty of this hardy evergreen shrub causes us to grow it by the acre. Our acreage this year is larger, holding better looking plants than ever before. We can offer:

	Each	10
12 to 15-inch clumps	\$1.20	\$10.00
15 to 18-inch clumps	1.60	15.00
18 to 24-inch clumps	2.50	22.50



For May Bloom Plant:—

Rhododendron carolinianum

We consider this the most beautiful. Rosy pink flowers in good-sized clusters.

	Each	10
9 to 12-inch clumps	\$2.00	\$17.50
12 to 15-inch clumps	2.75	25.00
15 to 18-inch clumps	3.25	30.00
18 to 24-inch clumps	4.00	37.50

Azalea

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The most gorgeous of all Spring bloomers. Orange-yellow to flame red and no two exactly alike.

	Each	10
1 to 1½ feet	\$2.50	\$20.00
1½ to 2 feet	3.00	25.00
2 to 2½ feet	3.50	32.50

Note: All of above are dug with ball of earth, securely burlapped and packed for shipment to any distance. Special quotations on 100 lots of any size on request.

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The fine points of Rose pruning

Continued from page 458

of its side branches being more or less gnarled. After this is done, the second operation, shortening the remaining canes, requires a little thought, and varies somewhat with the various classes.

Everblooming Roses—This is an improper term, embracing all large flowering varieties blooming more or less repeatedly from spring to frost, the most important of which are Hybrid Teas and Pernetianas. We must now consider the quality of rose bloom we desire, whether just roses—plain posies, roses for cutting, or supreme beauties for blue ribbon competition. We must also take into consideration the quality of our soil. For quantities of garden posies (some people call that garden decoration), simply shorten the tops, but for roses we apply the shears lower. This has to be done according to the vigor of the plant, partly due to the variety and also to its larder—soil. For ordinary purpose and average flowers, we remove two thirds of the previous year's growth, thus a Radiance grown three feet is shortened to one foot from the ground while a naturally dwarf variety such as Mrs. Aaron Ward that grew eighteen inches is pruned down to six inches. It was formerly advised to prune to so many eyes, but we have found this misleading as each variety has a different habit of growth in turn considerably altered by the soil contents. The fraction system takes care of both. Do we expect roses for bouquets? Then we must have long stems and these are obtained by closer pruning, removing about three fourths of the tops. Blue ribbon roses require even lower pruning after leaving but two good canes on the plant.

Single varieties such as the Irish Roses, Isobel, K. of K., Red Letter Day, also the semi-singles of Mme. Edouard Herriot and Independence Day type, which are hardly ever used for cutting—stems too short—could and, in fact, should be, pruned much longer than the double roses. Their effect in the garden depends upon mass production.

Hybrid Perpetuals—I am wondering how many of the readers have actually grown good Hybrid Perpetual roses? They will if Hybrid Perpetuals are pruned the same way as Hybrid Teas, shortening the long canes to one third or one fourth of their length.

Polyanthas—Theoretically this class (Baby Ramblers) needs no pruning, but they will gain in evenness of growth and bloom if they are pruned, at least the base cleaned of weak growth. The topping is based entirely on the purpose desired: low border, mass planting, or hedge. The most important thing in growing Polyanthas is to remove always the spent heads, in other words do not let the plants go to seeds, for it would stop further blooming.

Bengals (also called *Chinensis*) and *Teas* require no pruning beyond cleaning and shaping the plants. In these classes the individual flower seldom is of exhibition or cutting possibilities and their decorative value depends upon the profusion of bloom.

There are two distinct classes of climbing Roses: the smaller bloom or pompon type, best exemplified by

Dorothy Perkins, generally called Ramblers; and the large bloom Climbers such as Dr. W. Van Fleet, Silver Moon, or in the South Maréchal Niel and Gloire de Dijon.

Ramblers—The wood of a Rambler is soft and its life of usefulness very short, because the bark is so thin that it soon feels the effect of summer weather hardening and constricting the sap-ducts. The plant seems to be conscious to this, and, of its own volition and instinct, puts forth each year an ample supply of branches from the base to cover its allotted space or the object its lord and master has assigned it. The previous year's coverage must be removed as useless, and if it is not removed, the Rambler becomes a mess. Much of the mildew and rust blamed on Dorothy Perkins, Crimson Rambler etc., is due to the neglect to which these could-be-beautiful Roses are subjected. A well-pruned Rambler does not mildew unless unhappily placed against a wall. Ramblers should be used only in open spaces (wire fences, trellises, etc.) In our treatment of garden material, we have to reckon with the innate habit of plants and follow nature's teaching; since nature supplies the Rambler with a new dress each year, the old one becomes obsolete and should be discarded. The best time to do this is in summer, soon after the dress parade is over, and the operation is very simple. Unfasten the Rambler from its support and cut the old canes at the base, which by that time would have already sent out new runners, and train these new runners on the support to take the place of the old ones. This summer pruning will entice the plant to new vigor and in a very short time the support will be covered with a healthy, ornamental vine.

The *Climber*, typified by the large bloom, broad foliage, and heavy canes is treated differently because the life-cycle and usefulness of its wood is longer. It requires more space for its expansion, and its adaptability is greater since it can be used either on open supports or walls. The only use I found unsuited for a Climber is the garland on rope or chain; its canes lack flexibility for that purpose for which Ramblers are ideal. The pruning consists merely in holding the plant within bounds and, if some has to be thinned because of lack of space and to keep it from becoming messy, it is preferable to remove some of the new shoots, as older wood is a more generous bloomer.

It has often been recommended to cut off the faded blooms and shorten the flowered stems to one or two inches from the main cane. I am strongly opposed to this treatment, because quite a few Climbers have a tendency to bloom again, although sparingly, from eyes growing out of the spring-flowered stems, and if these have been shortened, the autumn-flowering has been destroyed. Among varieties having this remounting tendency are Alberic Barbier, Alida Lovett, Bess Lovett, Breeze Hill, Chaplin's Pink Climber, Christine Wright, Climbing American Beauty, Dr. W. Van Fleet, Mary Lovett, Mary Wallace, Paul Noel, Paul's Scarlet Climber, Zephirine Drouhin.

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Iris, hardy beauty of the garden

Continued from page 439

conditions during the summer months and not too wet during the winter and spring.

In my experience Bearded Iris does not need lime. This is borne out by the findings of others, though there are some who find lime essential to healthy growth in their particular soils.

Soils that have been dressed with hydrated lime or old mortar have resulted in alkaline conditions in which the dread bacterial root rot has been found to flourish, practically resulting in the ruination of Iris plantings. This is according to my own observations substantiated by the findings of other growers in and about Washington, D. C., in Pennsylvania, and in Illinois, and probably elsewhere. Mrs. J. Edgar Hires in a recent Bulletin of the American Iris Society stated: "And now though I be accused of rank heresy I cannot resist the sticking of one small pin in the 'lime for Iris' bubble" and presents evidence supporting my views on the subject.

In certain soils or climatic conditions, though I think it is the soil, like those of Long Island, limed soils have been found preferable to unlimed ones, using ground limestone. Possibly this soil is too acid and such soils may be as bad as too alkaline ones. The happy medium would therefore seem to be a soil just on the acid side.

Once I produced a growth in bloom and plant of the old favorites Loreley, Rhein Nixe, and Flavescens by use of

a well manured bed, no lime, that visitors thought I was showing improved seedlings of them, because of their luxuriant growth, height of stalk, and size of flowers.

In soil prepared as directed, set out the plants so as to distribute the feeding roots normally about each plant, setting the thick rhizome just barely below the surface, firming the soil around the fibrous roots. If a clump effect is desired, set each division about six to eight inches apart, facing the leaf end in various directions so that when growth starts, there will not be a common center to the group. Borders may be planted similarly for best effect. When planting an herbaceous border containing Iris alone, or with other flowers, keep in mind the height of your plants. Let fertilization consist in the use of superphosphate of lime (having an acid forming tendency), bone meal and well rotted manure worked into the soil about the plants. A complete general crop fertilizer like 4-8-4 may also be used to excellent advantage.

Cultivation may be overdone with the Iris particularly where one wants the flowers. Its feeding roots spread more or less laterally and are relatively near the surface and may be injured if cultivation is deep. In small gardens cultivation might well be restricted to the removal of weeds and working in fertilizers.

Remove the dead and dying foliage because of its unsightliness and the possibility of harboring insects. In my experience (Continued on page 506)



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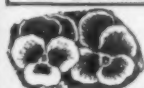
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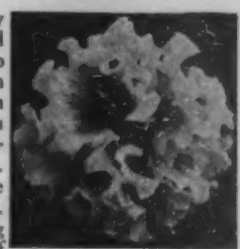
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Iris, hardy beauty of the garden

Continued from page 504

it does not aid in the development of bacterial root rot.

When planting it is best not to set out divisions of more than two "fans" or "fingers" of leaves. If transplanting can be accomplished immediately after digging, there should be practically no interruption in the growth of the new plant. However, if the delay be a few days or more, it is much better to wait until the old feeding roots are entirely dry and the leaf bases yellowed, before resetting.

Clumps of Iris should be dug, divided and reset whenever they reach the stage of giving less bloom than should be expected. The old parts of the rhizomes are taking up valuable space and preventing the new growth from making proper use of the nutrients in the soil and these old parts should be destroyed. A simple way is to remove the old center roots and fill the center with a few young roots from the outer edge of the clump. The best time to transplant Bearded Iris is immediately after flowering. Cut back leaves on all transplants.

Best bloom is not to be had when Iris are planted too near hot walls; they either bring the buds out prematurely to be lost in late freezes or the buds are burned up by the reflected heat. Do not plant too close to shrubbery and trees with shallow spreading roots, as these rob the soil of what the Iris needs. Do not plant in low places, where water is apt to stand for any length of time. Give

each variety plenty of space to develop naturally, for all do not have the same habit of growth; some being more rapid than others.

There are three distinct types of Bearded Iris and the procession begins with the blooming of the Dwarfs in late March (D. C.) and April (N. Y.) and before they are a matter of history a good show of Intermediates, in flowering habit and height, come into their own, varying in height between the Dwarfs and the later Tall ones which close the parade with a great burst of bloom well into the month of June.

The Dwarfs are delightful subjects for the front of a border, in rockeries or rock walls, most of them but a few inches tall, a few up to one foot in height, in various shades and tints of blue, purple, yellow, and white, with some new colors added recently as reds, pinks, and bicolors. Though not suitable for cutting, clumps may be carefully lifted early in spring, potted and flowered in a conservatory.

The Intermediates are too tall for the rock garden but are admirable for the border in front of the taller growing late ones, yet it must be understood here that the name Tall Bearded Iris is not entirely a correct one, for there are a number generally amongst the yellow bicolors (variegatas) that do not attain the height of the Intermediates and a few that are quite dwarf in stature such as Maori King and Hector.

The later flowering Bearded Iris bring in the greatest show of them all.

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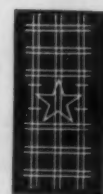
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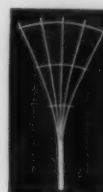
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EST'D. 1905

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476 Main St., New Rochelle, N. Y.

Planting for picking

Continued from page 436

St. Brigid Anemones give bloom very early in the year—where it can be grown—particularly if a coldframe may be used. Give them a rich friable compost, with considerable leafmold. Separate and reset the corms each summer.

Stocks have a sweet spicy fragrance that is one of the very best for the house. Only half hardy, they must be started early indoors, and set out in May. The Ten-Week varieties are usually most all around satisfactory.

Grape Hyacinth and Forget-me-nots make a happy small spring bowl, the latter softening the stiffness of the Muscari, which is a small bulb that may be planted in almost any garden situation and soil in fall. They come in azure blue, gentian blue, deep purplish, and white.

Babysbreath (*Gypsophila*) adds an airiness to bouquets. *G. paniculata* is the perennial form, and blooms through July and August. The double variety is best. *G. muralis* is an annual, coming in both pink and white. Divide your seed into plantings at three week intervals, sow where it is to grow, then thin ruthlessly.

The Snapdragon (illustration on page 435) has everything except fragrance; and if kept cut, is extremely prolific. As an annual, sow seeds indoors in early March. Cover very lightly, and be sure to treat their place in the garden with lime, pressing the soil firmly around the roots when setting out, and snipping the top of each seedling.

Nasturtium seeds are easily

planted, and any sunny, fairly moist place pleases them, but they run to leaf in a rich soil.

Calendulas are easily handled annuals with refreshing pungent odor. They will grow anywhere and bloom until killing frost, becoming perennial in milder climates. Try them in a low dish on a walnut table or sideboard. The French Marigolds may also be used similarly. The large African Marigolds are useful with their globular heads to group with Gladioli.

Chrysanthemums are important for late bloom. By covering those first few nights of earlier killing frost, you may usually have blooms in differing varieties from midsummer to Thanksgiving.

Larkspur is one of the best blue flowers for cutting, and comes in annual form, as well as the popular perennial Delphinium. The annual is lower growing and more loosely formed than the Delphinium. It needs an early sowing, with consequent resetting in Northern gardens; but blooms continuously over a long period. Give them one of the cooler places, and remember to water them.

Sweet-peas rank high as cut flowers, with fragrance, color, form, texture, stiff stems, prolific bloom, and long season. Sow the seed early and deep in a double row where it is to grow, gradually filling up the trench as the vines grow. They like the partial shade of deciduous trees that leaf out late. Be sure to get some support for them immediately.

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SPRINKLING
NEED



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DOUBLE
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This all-purpose sprinkler gives you—right at your finger tips—a mist-like spray for seeded flower beds; rain-like drops for lawns and flowers; or a drenching shower for shrubs and gardens. Easily regulated to sprinkle in a circle or on a straight line—to operate as a stationary sprinkler or to rotate. Covers area from 15 to 80 feet in diameter, according to pressure. Finest construction. Bronze and steel gears operate in bath of oil. Guaranteed—Order now. Try 10 days. If not satisfactory in every way, return sprinkler and money will be refunded. Descriptive literature on request.

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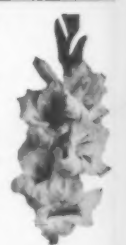
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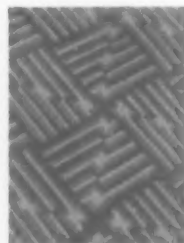


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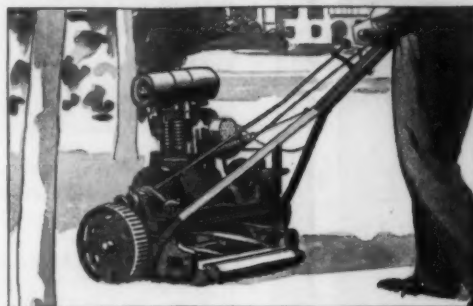
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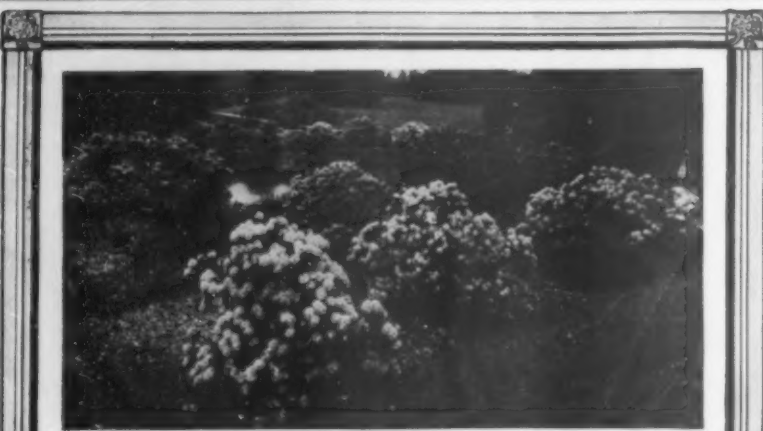
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